Service Manual

LCD COLOR MONITOR

Model : CML-523BM

DAEWOO LUCOMS CO., LTD.

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SAFETY PRECAUTIONS

CAUTION: No modifications of any circuits should be attempted. Service work should be performed only after you are thoroughly familiar with all of the following safety checks and servicing guidelines.

◆ Safety Check

Care should be taken while servicing the inverter that generates the high voltage to lighten CCFL of the LCD panel.

◆ Fire & Shock Hazard

- Insert an isolation transformer between the analog color display and AC power line before servicing the chassis.
- When servicing, pay close attention to the original lead dress especially in the high voltage circuit area; if a short circuit is found, replace all parts which have been overheated as a result of the short circuit.
- All the protective devices must be reinstalled per original design.
- Soldering must be inspected for possible cold solder points, frayed leads, damaged insulation, solder splashes or sharp solder points. Be certain to remove all foreign materials.

GENERAL SAFETY INFORMATION

◆ Terms in the manual

CAUTION Statements identify conditions or practices that could result in damage to the equipment or other property.

WARNING Statements identify conditions or practices that could result in personal injury or loss of life.

◆ Terms as marked on equipment

CAUTION Statements indicate a personal injury hazard not immediately accessible as one reads the marking or a hazard which is properly included on the equipment itself.

WARNING Statements are clearly concerning indicated personal injury hazards.

◆ Symbols in the manual

The symbols indicate where applicable cautionary or other information is to be found.

◆ Symbols as marked on equipment

Protective GROUND terminal

◆ High Voltage Warning And Critical Component Warning Label

The following warning label is on the inverter isolation case.

SERVICING PRECAUTIONS

CAUTION: Before servicing instruments covered by this service manual, its supplements, and addendum, please read and follow the SAFETY PRECAUTIONS of this manual.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 1 of this manual, always follow the safety precautions. Remember: Safety First.

◆ General Servicing Precautions

1. Always unplug the AC power cord from the AC power source before:
   a. Removing or reinstalling any component, circuit board, module, or any other instrument assembly.
   b. Disconnecting or reconnecting any electrical plug or other electrical connection.
   c. Connecting a test substitute in parallel with an electrolytic capacitor in the instrument.

   CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in a explosion.

2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM. etc.) equipped with a suitable high voltage probe. Do not test high voltage by “drawing an arc”.

3. Do not any spray chemicals on or near this instrument, or any of its assemblies.

4. Unless otherwise specified in this service manual, only clean electrical contacts by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick, or comparable nonabrasive applicator: 10% (by volume) Aceton and 90% (by volume) isopropyl alchohol (90%-99% strength).

   CAUTION: This is a flammable mixture. Unless specified in this service manual, lubrication of contacts is not required.

5. Do not apply AC power to this instrument and/or any other of its electrical assemblies unless all the solid-state device heat sinks are correctly installed.

6. Always connect the test instrument ground lead to the appropriate instrument chassis ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.

7. Only use the test fixtures specified in this service manual with this instrument.

◆ Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity.
Such components are commonly called Electrostatically Sensitive (ES) Devices.
The typical examples of ES devices are integrated circuits, some field-effect transistors, and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, wipe off any electrostatic charge on your body by touching any known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device which should be removed for potential shock reasons prior to applying power to the unit under testing conditions.

2. After removing the electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil to prevent electrostatic charge buildup or exposure to the assembly.

3. Only use a grounded-tip soldering iron to solder or unsolder ES devices.

4. Only use an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate enough electrical charges to damage ES devices.

5. Do not use freon-propelled chemicals. These can generate enough electrical charges to damage ES devices.

6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil, or comparable conductive material).

7. Immediately before removing the protective material from the leads of replacement ES devices, touch the protective material to the chassis or circuit assembly into which the device will be installed.

> **CAUTION:** Be sure that no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily movements when handling unpackaged replacement ES devices. (Otherwise harmful motion such as the brushing together clothes fabric or the lifting your foot from a carpeted floor can generate enough static electricity to damage ES devices).

◆ General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron with appropriate tip size and shape that will maintain tip temperature between a 550°F-660°F (288°C-316°C) range.

2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.

3. Keep the soldering iron tip clean.

4. Throughly clean the surface to be soldered. Use a small wire-bristle (0.5 inch or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.

5. Use the following soldering technique:
   a. Allow the soldering iron tip to reach normal temperature (550°F to 660°F or 288°C to 316°C)
   b. Hold the soldering iron tip and solder strand against the component lead until the solder melts.
   c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there until the solder flows onto and around both the component lead and the foil.
   d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

> **CAUTION**: Work quickly to avoid overheating the circuit board printed foil.

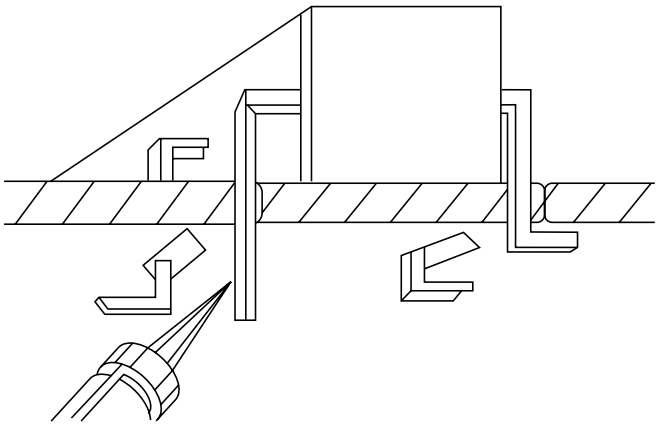


FIGURE 1. USE SOLDERING IRON TO PRY LEADS

◆ IC Removal/Replacement

Some utilized chassis circuit boards have slotted (oblong) holes through which the IC leads are inserted and then bent flat against the circuit foil. When holes are slotted, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 on the page under the title of general soldering guidelines.

◆ Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with desoldering braid before removing the IC.

◆ Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (lt is not necessary to reapply acrylic coating to the area).

◆ “Small-Signal” Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend the ends of each of three leads remaining on the circuit board into a “U” shape.
3. Bend the replacement transistor leads into a “U” shape.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the “U” with long nose pliers to ensure metal-to-metal contact, then solder each connection.

◆ Power IC, Transistor or Devices Removal/Replacement

1. Heat and remove all solders from the device leads.
2. Remove the heatsink mounting screw (if applicable).
3. Carefully remove the device from the circuit board.
4. Insert new device in circuit board.
5. Solder each device lead and then clip off excess lead.
6. Replace heatsink.

◆ Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicularly to the circuit board.
3. Observing diode polarity, wrap each lead out of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect the solder joints of the two “original” leads on the circuit board copper side. If they are not shiny, reheat them and apply additional solder if necessary.

TECHNICAL INFORMATION

Panel	Size	15-inch (38cm) diagonal
	Pixel Pitch	0.297 x 0.297 mm
	Viewing Angle	70°(Right/Left)
		70°(up), 60°(down)
	Contrast Ratio	350:1 contrast ratio (typ)
	Brightness	250cd/m^2 brightness (typ)
	Color Filter	RGB vertical stripe
Synchronization	Horizontal	30-62 KHz
	Vertical	50-75Hz
Video Bandwidth		80MHz
Max Resolution		1024 x 768 @75Hz
Colors		16.2M Colors
Display Area		304.1mm x228.1mm
PC Input Signal	Sync	H/V separate (TTL)
	Video	15 pin mini D-sub(Analog RGB)
	Audio	Stereo MiniJack Input & Output
Speaker	Max. Output	2W(Left 1W+Right 1W)
Plug and Play		VESA DDC Compatible
Power Source		100-240 Vac, 50/60 Hz (Free Voltage)
Power Consumption		26W
Dimension-W x H x D		370 x 352 x 205mm (with stand) 370 x 312 x 60 mm (without stand)
Weight-net/gross		4.2/5.5Kg
Power Saving		EPA, VESA DPMS, Nutek Compliant
Tilt Range		5° forward, 30° backward
Operating Temperature		10 ~ 40°C /50 ~ 104°F

GENERAL INFORMATION

This TFT LCD monitor automatically scans all horizontal frequencies from 30KHz to 62KHz. This TFT LCD monitor supports IBM PC, PC/XT, PC/AT, personal System/2 (PS/2), Apple Macintosh, and compatible users crisp text and vivid color graphics display when using the following graphics adapters : (VGA, Super VGA, VESA, XGA, SXGA and Apple Macintosh Video Card). And so, this TFT LCD monitor has a maximum horizontal resolution of 1024 dots and a maximum vertical resolution of 768 lines for superior clarity of display.

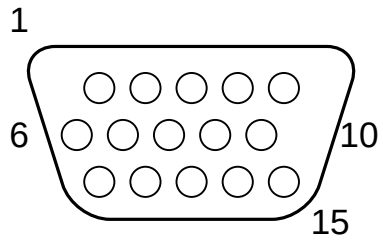
By accepting analog signal inputs which level is zero to 0.7 Volts. This TFT LCD monitor can display 16.7M colors depending on the graphics adapter and software being used.

◆ **Abbreviations**

ADJ	Adjustment
AFC	Automatic Frequency Control
TFT-LCD	Thin Film Transistor Liquid Crystal Diplay
CCFL	Cold Cathode Fluorescent Lamp
H.SYNC	Horizontal Synchronization
OSC	Oscillator
P.S.U	Power Supply Unit
PWA	Printed Circuit Board Wiring Assembly
R.G.B	Red, Green, Blue
V.Sync	Vertical Synchronization
ADC	Analog Digital Converter

PIN CONNECTOR

Pin	Signal
1	Red
2	Green
3	Blue
4	GND
5	GND
6	GND - Red
7	GND - Green
8	GND - Blue
9	+5Vdc
10	GND - H.Sync
11	GND - V.Sync
12	Bi-directional Data (SDA)
13	Horizontal Sync
14	Vertical Sync (VCLK)
15	Data Clock (SCL)



Arrangement of 15-pin D-sub connector

CAUTIONS FOR ADJUSTMENT AND REPAIR

- The white balance adjustment has been done by a color analyzer in factroy. The adjustment procedure, described in the service manual is made by a visual check.
- Allow 20 minutes warm-up time for the display before checking or adjusting only electrical specification or function.
- Reform the leadwire after any repair work.

◆ Caution For Servicing

- In case of servicing or replacing inverter, high voltage sometimes remains in the output of the inverter. Completely discharge high voltage before servicing or replacing inverter to prevent a shock to the serviceman.

<< L523BM >>

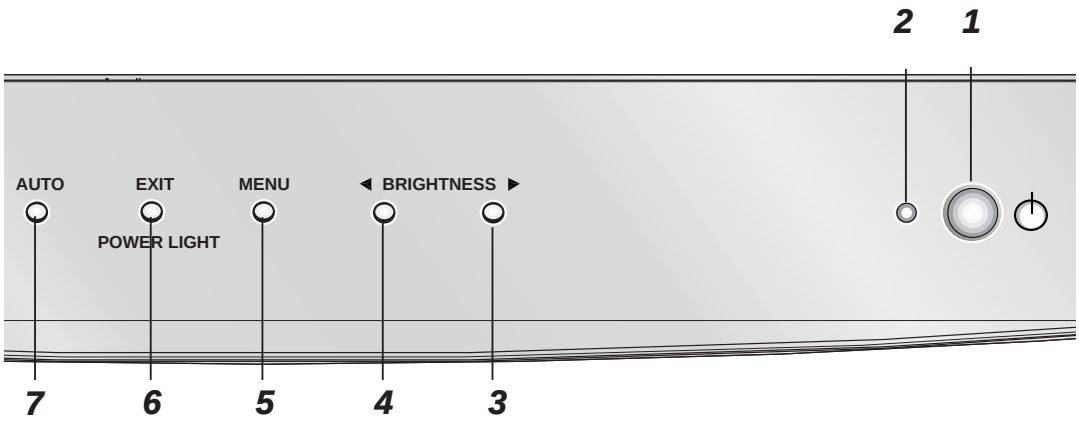
Control Panel

1 **POWER**

Switches the monitor on and off.

2 **POWER Indicator**

Shows both normal operation and power management status with power indicator light.



3 ▶(∗)

Moves cursor to the right or low window in the OSD window and increases the value of any selected function.

4 ◀(∗)

Moves cursor to the left or high window in the OSD window and decreases value of any selected function.

5 **MENU**

Turns the OSD window on.

6 **EXIT/POWER LIGHT**

Turns the OSD (On-Screen Display) window off and moves from sub menu to top menu in the OSD window.

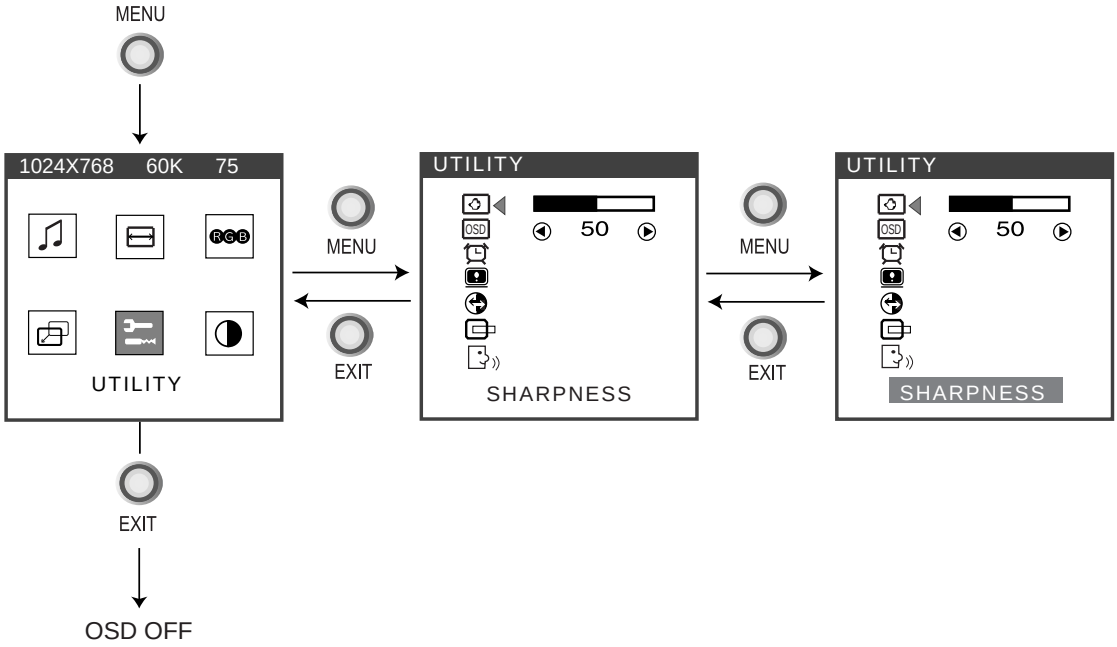
While the OSD screen is off, you can adjust the screen brightness according to each situation.

7 **AUTO** (∗)

Launches the AUTO TRACKING function directly.

(∗) : Hot Key

Key Process

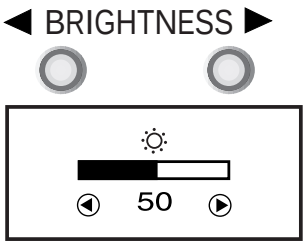


HOT KEY

AUTO

- When there is no OSD, if you press this AUTO button, you can use the best display performance fit for a current mode.

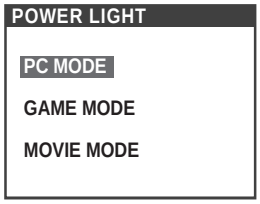
◀ BRIGHTNESS ▶



- When there is no OSD, if you press this BRIGHTNESS button, you can adjust the brightness directly.
  - ◀: decreases brightness
  - ▶: increases brightness

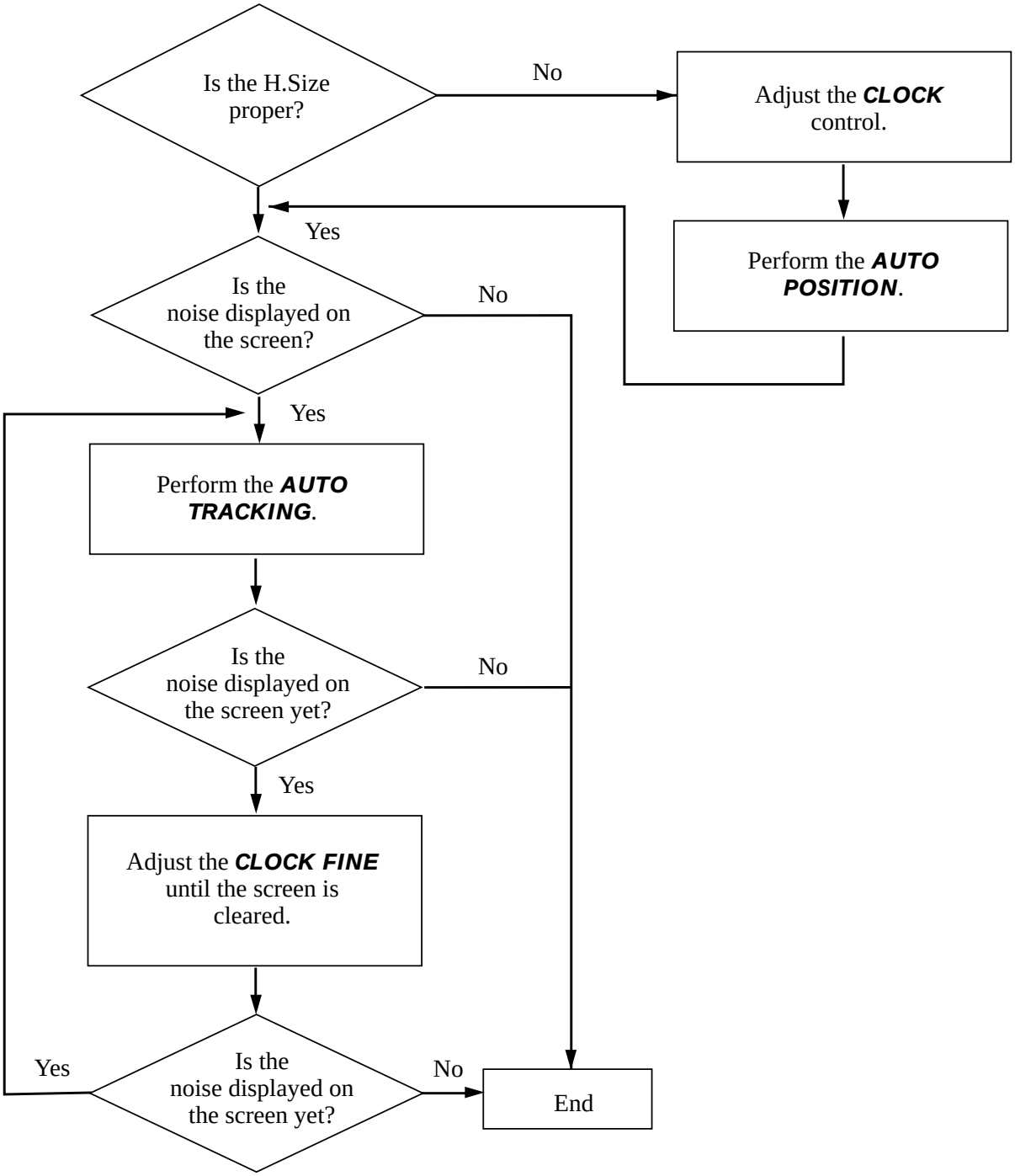
EXIT

POWER LIGHT



- The screen will be brightened progressively by 10%. If you carry out general PC works such as document edition on the Movie mode,you may shorten the life span of LCD panel. Thus,it is recommended to verify the selected mode before use.

Adjustment Procedure



OSD Functions

<< OSD FUNCTIONS WITH USING PC >>

ICON	CONTROL	FUNCTIONS
	VOLUME	Adjust audio volume, mute sound.
	CLOCK	Adjust the width (horizontal size) of the screen image.
	CLOCK FINE	Sharpen the focus by aligning the illuminated pixels and adjust until the screen image looks focused, crisp and sharp. Adjusting the ***CLOCK FINE*** after the ***CLOCK*** adjustment will produce a clear screen.
	AUTO TRACKING	Adjust the horizontal & vertical picture image quality and size.
	COLOR TEMPERATURE	Choose different preset color temperatures or set your own customized color parameters.
	RED CONTROL	Adjust the red color.
	GREEN CONTROL	Adjust the green color.
	BLUE CONTROL	Adjust the blue color.
	H. CENTER & V. CENTER	Adjust the position of the display horizontally (left or right) and vertically (up or down).
	SHARPNESS	Adjust the display image quality (if the screen proceed to scaling up).
	OSD POSITION	Adjust the OSD position horizontally (left or right) and vertically (up or down).
	OSD TIME OUT	Adjust the display OSD Menu.
	STATUS	Display horizontal & vertical frequency and polarity.
	RECALL	Reset the screen to the Factory Preset Display Settings.

ICON	CONTROL	FUNCTIONS
	AUTO POSITION	Choose automatically the proper horizontal position and vertical position & size of the screen image.
	LANGUAGE	Select language for OSD (6 languages).
	CONTRAST	Adjust the contrast of image, the difference between light and dark areas on the screen.

Self Diagnosis

If there is no image, the Self Diagnosis screen will be displayed. Self Diagnosis function checks if the status of the monitor screen is No Signal, Out of range or None support.

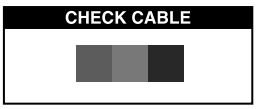
"No Signal" screen is displayed when the D-Sub signal connector is not connected or the status of the monitor is on DPMS mode.

"Out of Range" screen is displayed when the applied frequency is under or over normal range.

■ Normal range
(Non-interlaced mode only)

H : 30 - 62 KHz
V : 50 - 75 Hz

"None support" screen is displayed when the applied frequency is under or over factory preset timings.



Check cable screen is displayed when the signal cable is disconnected.

ALIGNMENT PROCEDURE

Standard Check point

1. Power source : 100 - 240Vac, 50/60Hz.
2. Aging : Take at least 20 minutes warm-up time.
3. Signal

• Video input : Analog 0.7Vpp 75Ω terminal positive polarity
• Synchronizing : acceptable negative or positive at TTL level
• Max. Resolution :
    15”-1024 x 768@75Hz
• Frequency:
    15”- Horizontal : 30KHz - 62KHz
        Vertical : 50Hz - 75Hz (available only non interlace mode)

Adjustment

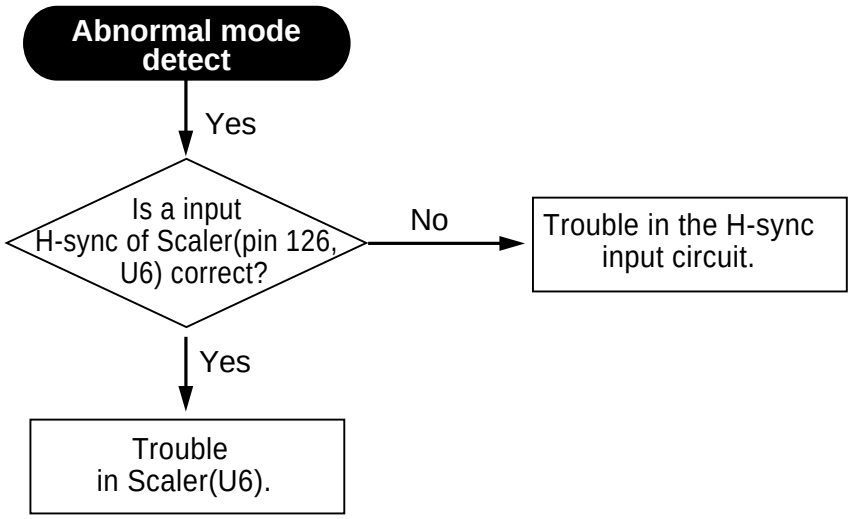
1. Sharpness set to 0%
2. Contrast set to 100%
3. Brightness set to 100%
4. Switching to factory alignment mode
   Press power key with Brightness left key at the power off status.
5. Set up the tracking
   See the SVC manual at page 14th.
6. Switching to user’s mode
   If turn-off and turn-on then switched to user’s mode.

∗ All of adjusted data stores by fade out of OSD.

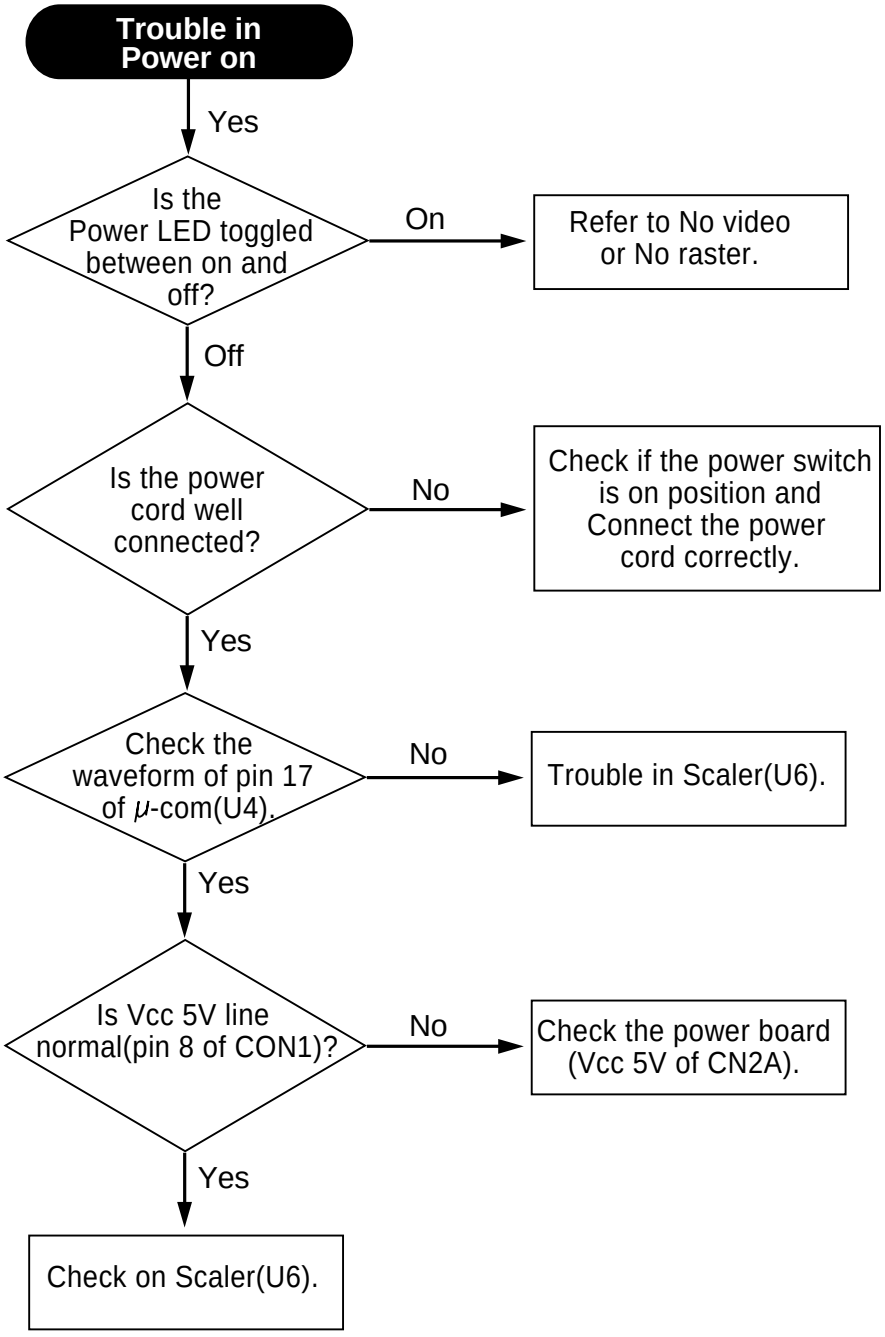
TROUBLESHOOTING HINTS

1. Abnormal mode detect

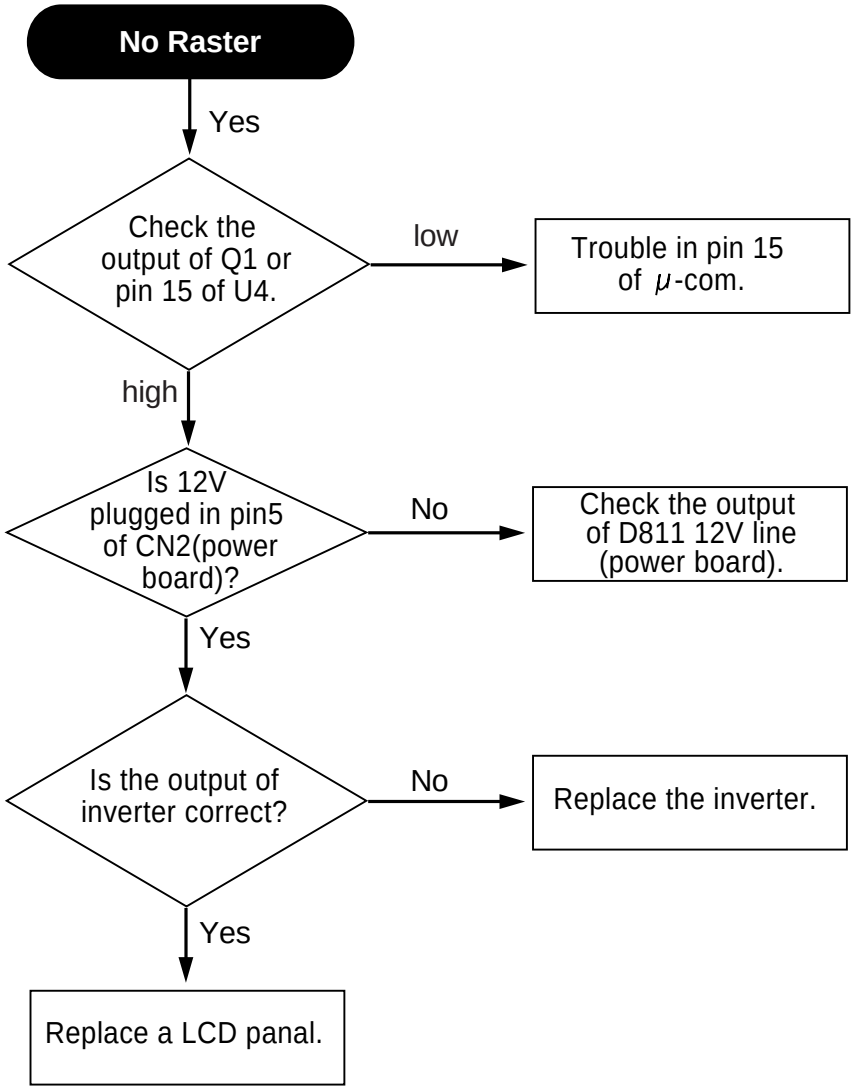
1-1. Abnormal mode detect for PC Source



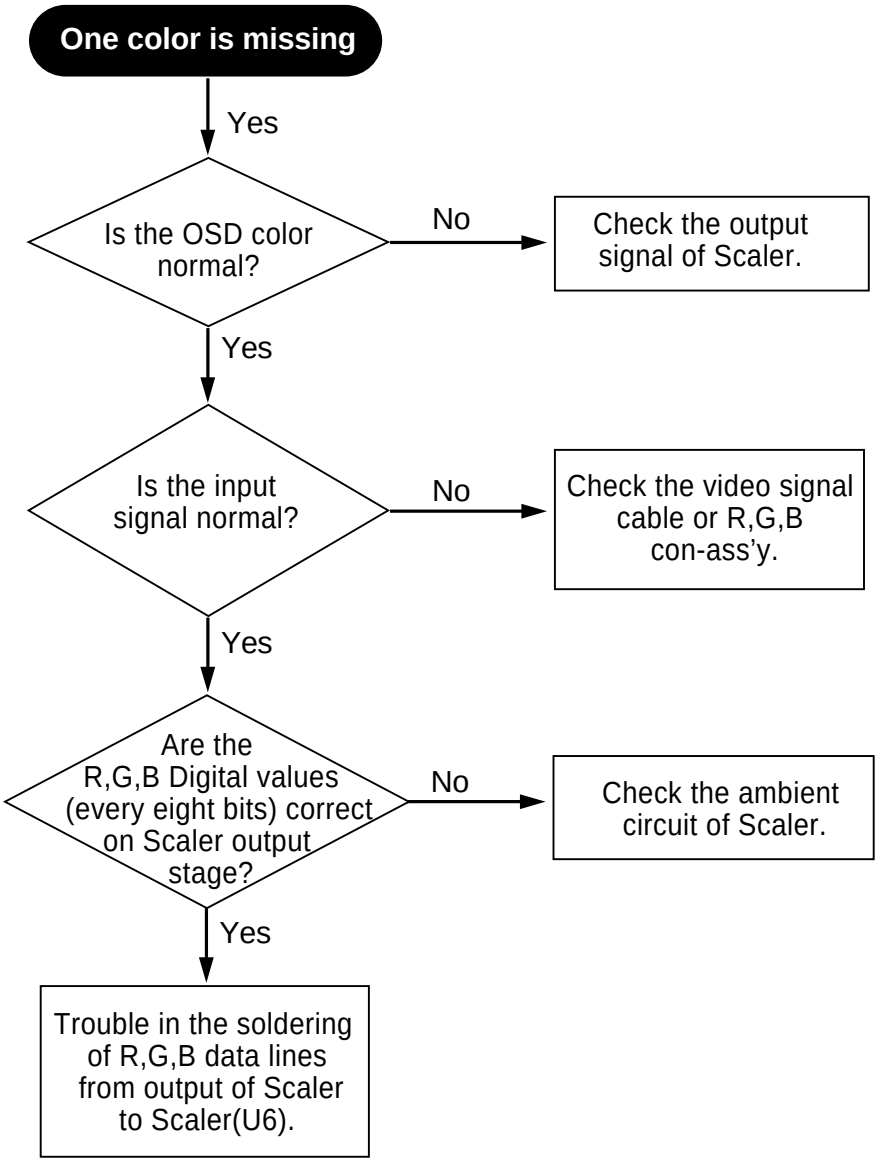
2. Trouble in Power on


Trouble in Power on
Yes
Is the Power LED toggled between on and off?
On
Refer to No video or No raster.
Off
Is the power cord well connected?
No
Check if the power switch is on position and Connect the power cord correctly.
Yes
Check the waveform of pin 17 of μ-com(U4).
No
Trouble in Scaler(U6).
Yes
Is Vcc 5V line normal(pin 8 of CON1)?
No
Check the power board (Vcc 5V of CN2A).
Yes
Check on Scaler(U6).

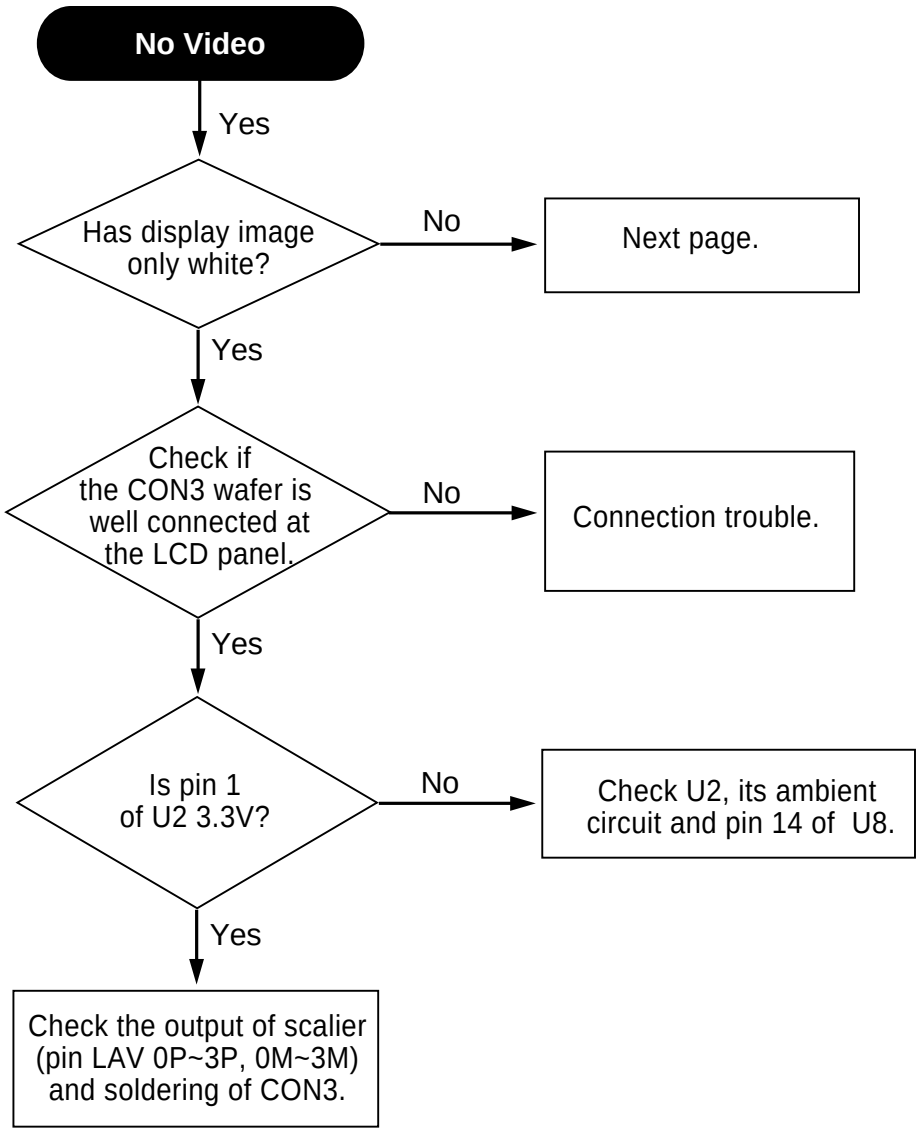
3. No Raster


No Raster
Yes
Check the output of Q1 or pin 15 of U4.
low
Trouble in pin 15 of μ-com.
high
Is 12V plugged in pin5 of CN2(power board)?
No
Check the output of D811 12V line (power board).
Yes
Is the output of inverter correct?
No
Replace the inverter.
Yes
Replace a LCD panal.

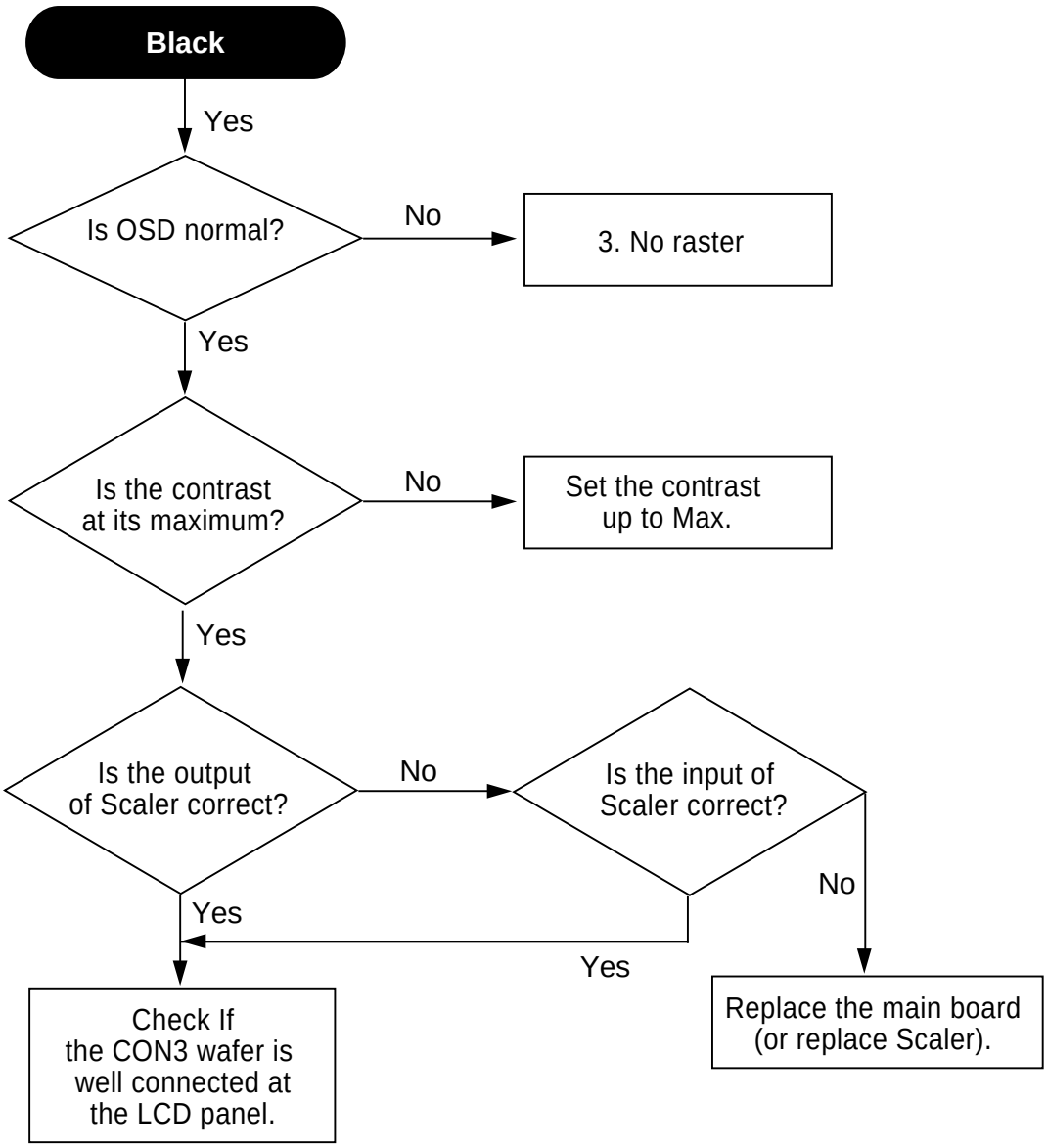
4. One color is missing


One color is missing
Yes
Is the OSD color normal?
No
Check the output signal of Scaler.
Yes
Is the input signal normal?
No
Check the video signal cable or R,G,B con-ass'y.
Yes
Are the R,G,B Digital values (every eight bits) correct on Scaler output stage?
No
Check the ambient circuit of Scaler.
Yes
Trouble in the soldering of R,G,B data lines from output of Scaler to Scaler(U6).

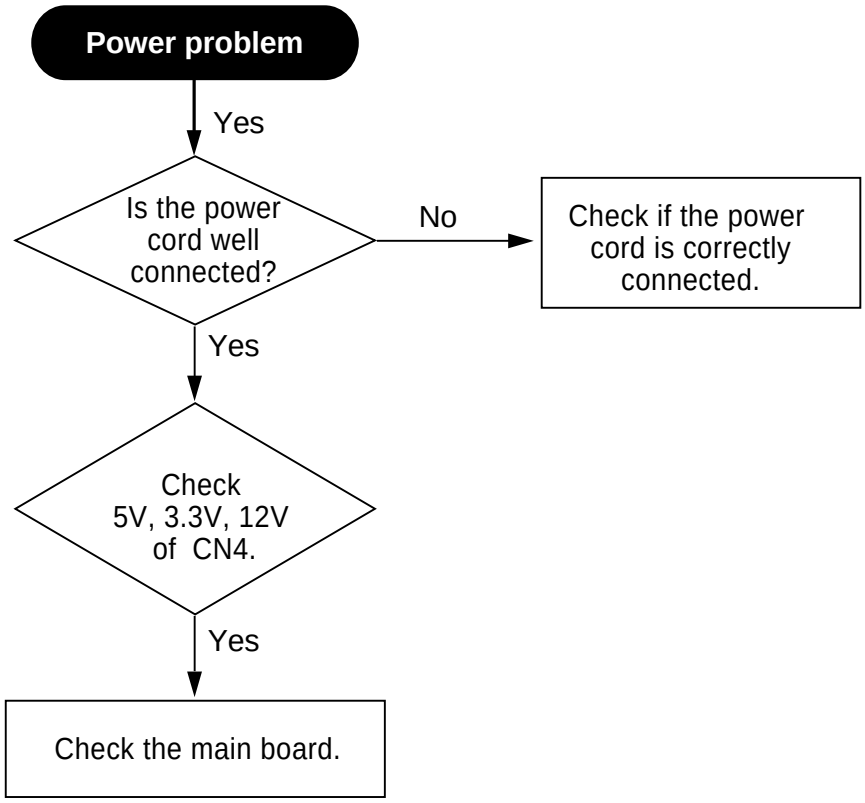
5. No Video


No Video
Yes
Has display image only white?
No
Next page.
Yes
Check if the CON3 wafer is well connected at the LCD panel.
No
Connection trouble.
Yes
Is pin 1 of U2 3.3V?
No
Check U2, its ambient circuit and pin 14 of U8.
Yes
Check the output of scalier (pin LAV 0P~3P, 0M~3M) and soldering of CON3.

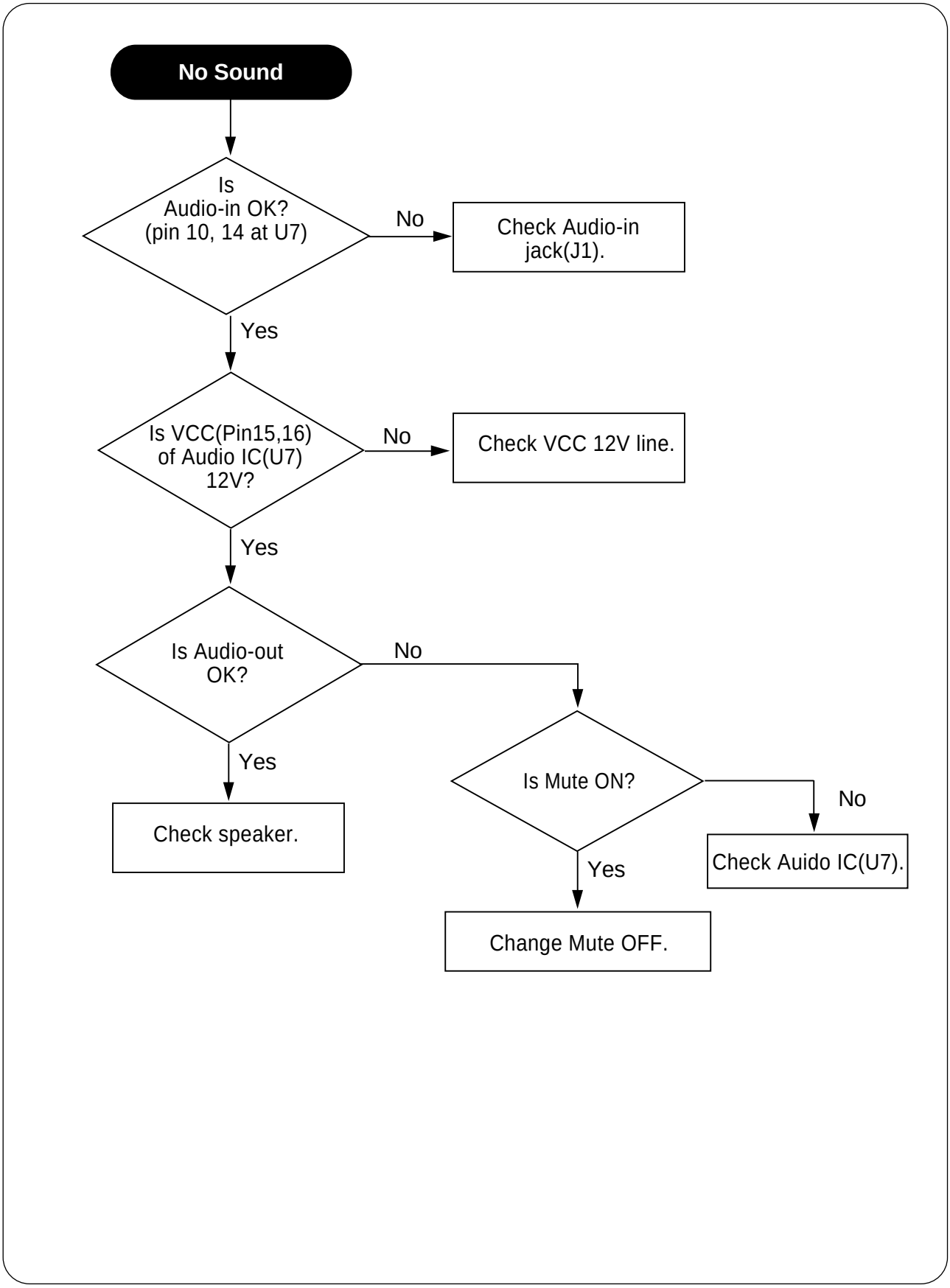
5-1. No Video


Black
Yes
Is OSD normal?
No
3. No raster
Yes
Is the contrast at its maximum?
No
Set the contrast up to Max.
Yes
Is the output of Scaler correct?
No
Is the input of Scaler correct?
No
Yes
Yes
Check If the CON3 wafer is well connected at the LCD panel.
Replace the main board (or replace Scaler).

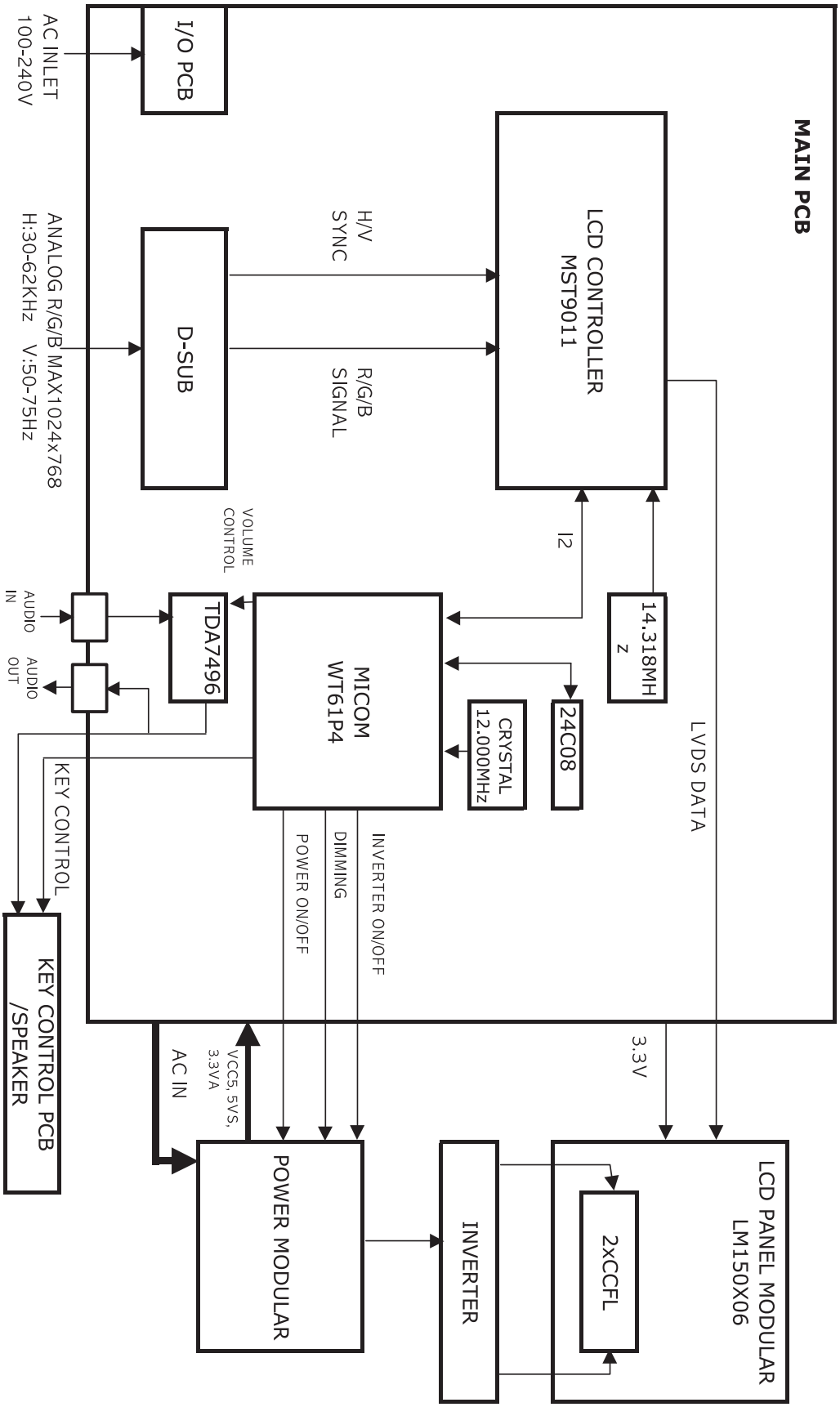
6. Power Problem



7. Sound Problem

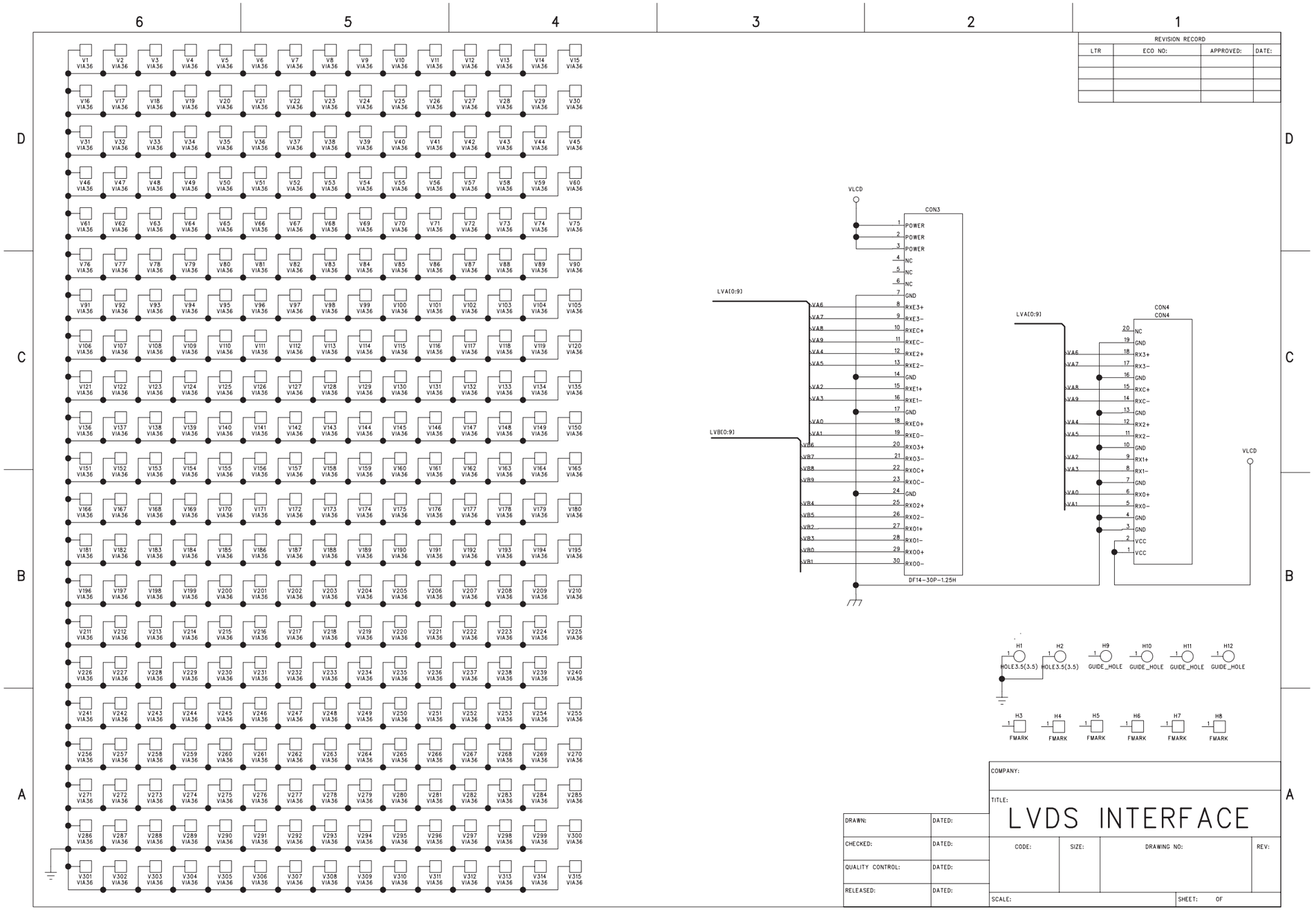


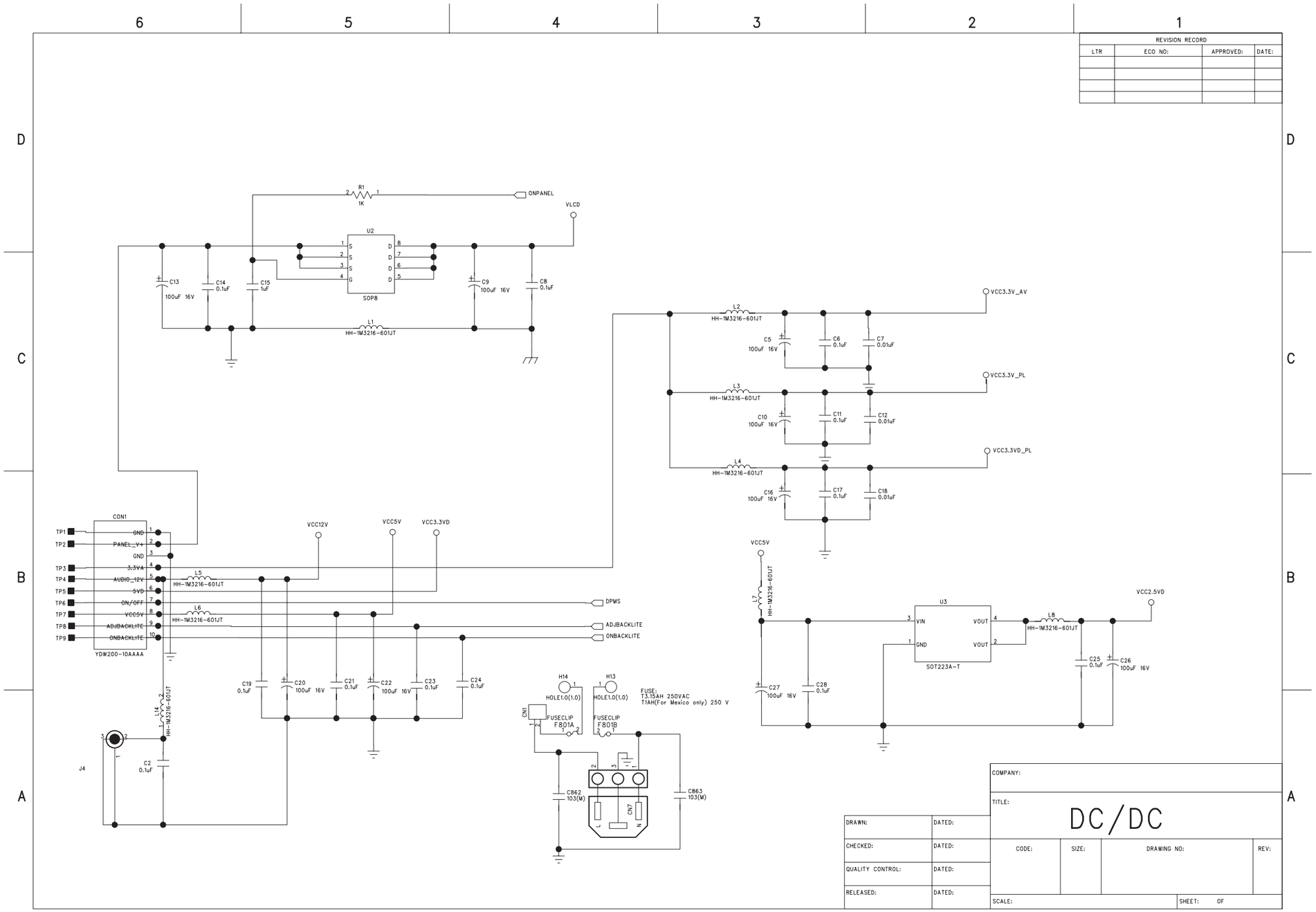
BLOCK DIAGRAM



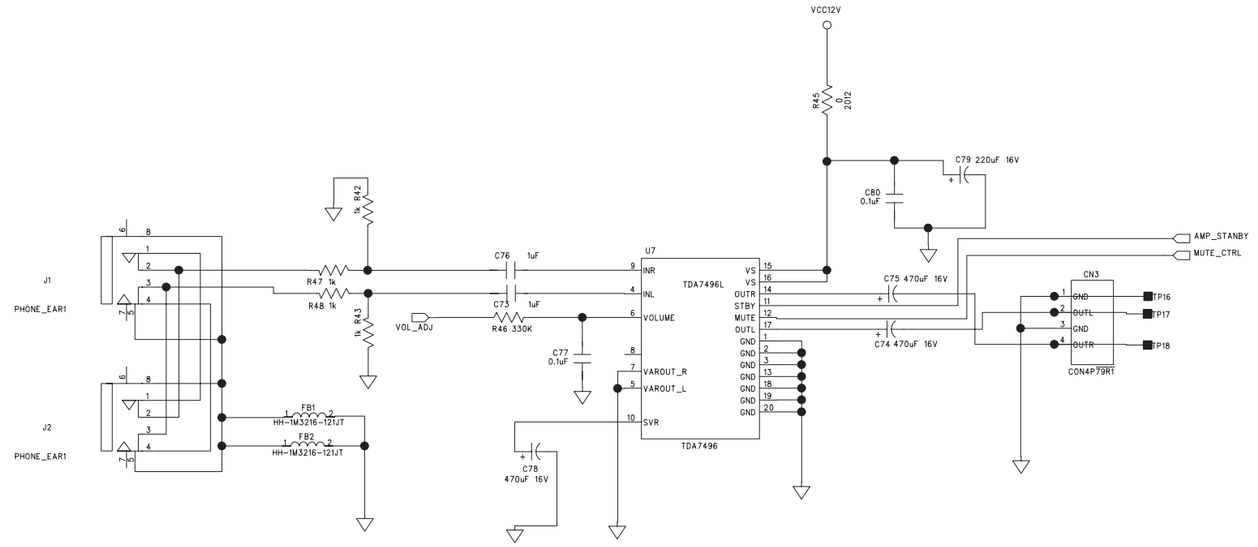
REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

DRAWN:	DATED:	COMPANY:			
CHECKED:	DATED:	TITLE: HOLE			
QUALITY CONTROL:	DATED:	CODE:	SIZE:	DRAWING NO:	REV:
RELEASED:	DATED:	SCALE:		SHEET: OF	

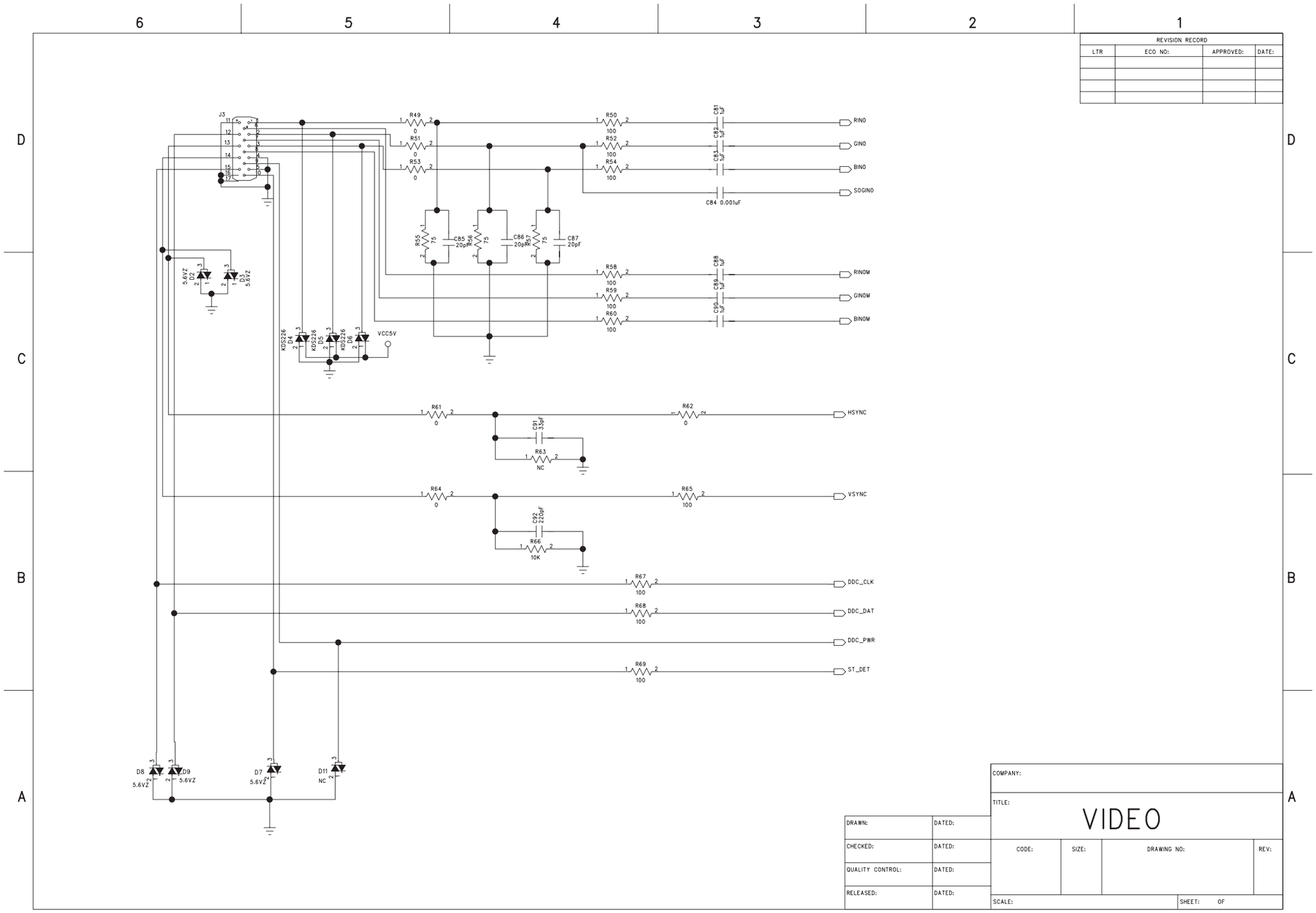

6
5
4
3
2
1
D
C
B
A
REVISION RECORD
LTR
ECO NO:
APPROVED:
DATE:
VLCD
CON3
POWER
NC
GND
RXE3+
RXE3-
RXEC+
RXEC-
RXE2+
RXE2-
RXE1+
RXE1-
RXE0+
RXE0-
RXO3+
RXO3-
RXOC+
RXOC-
RXO2+
RXO2-
RXO1+
RXO1-
RXO0+
RXO0-
LVA[0:9]
LVB[0:9]
DF14-30P-1.25H
CON4
RX3+
RX3-
RXC+
RXC-
RX2+
RX2-
RX1+
RX1-
RX0+
RX0-
VCC
H1
H2
H9
H10
H11
H12
HOLE3.5(3.5)
GUIDE_HOLE
H3
H4
H5
H6
H7
H8
FMARK
COMPANY:
TITLE:
LVDS INTERFACE
DRAWN:
DATED:
CHECKED:
QUALITY CONTROL:
RELEASED:
CODE:
SIZE:
DRAWING NO:
REV:
SCALE:
SHEET: OF


6
5
4
3
2
1
D
C
B
A
REVISION RECORD
LTR
ECO NO:
APPROVED:
DATE:
R1
1K
ONPANEL
VLCD
U2
SOP8
C13
100uF 16V
C14
0.1uF
C15
1uF
C9
100uF 16V
C8
0.1uF
L1
HH-1M3216-601JT
L2
HH-1M3216-601JT
C5
100uF 16V
C6
0.1uF
C7
0.01uF
VCC3.3V_AV
L3
HH-1M3216-601JT
C10
100uF 16V
C11
0.1uF
C12
0.01uF
VCC3.3V_PL
L4
HH-1M3216-601JT
C16
100uF 16V
C17
0.1uF
C18
0.01uF
VCC3.3VD_PL
CON1
YDW200-10AAAA
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
TP9
GND
PANEL_V+
3.3VA
AUDIO_12V
5VD
ON/OFF
VCC5V
ADJBACKLITE
ONBACKLITE
VCC12V
VCC5V
VCC3.3VD
L5
HH-1M3216-601JT
L6
HH-1M3216-601JT
DPMS
ADJBACKLITE
ONBACKLITE
C19
0.1uF
C20
100uF 16V
C21
0.1uF
C22
100uF 16V
C23
0.1uF
C24
0.1uF
L4
HH-1M3216-601JT
J4
C2
0.1uF
H14
HOLE1.0(1.0)
H13
HOLE1.0(1.0)
FUSE:
T3.15AH 250VAC
T1AH(For Mexico only) 250 V
CN1
FUSECLIP
F801A
FUSECLIP
F801B
C862
103(M)
C863
103(M)
CN7
L
N
VCC5V
L7
HH-1M3216-601JT
U3
SOT223A-T
VIN
GND
VOUT
VOUT
L8
HH-1M3216-601JT
VCC2.5VD
C27
100uF 16V
C28
0.1uF
C25
0.1uF
C26
100uF 16V
COMPANY:
TITLE:
DC/DC
DRAWN:
DATED:
CHECKED:
DATED:
QUALITY CONTROL:
DATED:
RELEASED:
DATED:
CODE:
SIZE:
DRAWING NO:
REV:
SCALE:
SHEET:
OF

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



COMPANY:					
TITLE: AUDIO					
DRAWN:	DATED:	CODE:	SIZE:	DRAWING NO:	REV:
CHECKED:	DATED:				
QUALITY CONTROL:	DATED:				
RELEASED:	DATED:	SCALE:		SHEET: OF	



REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

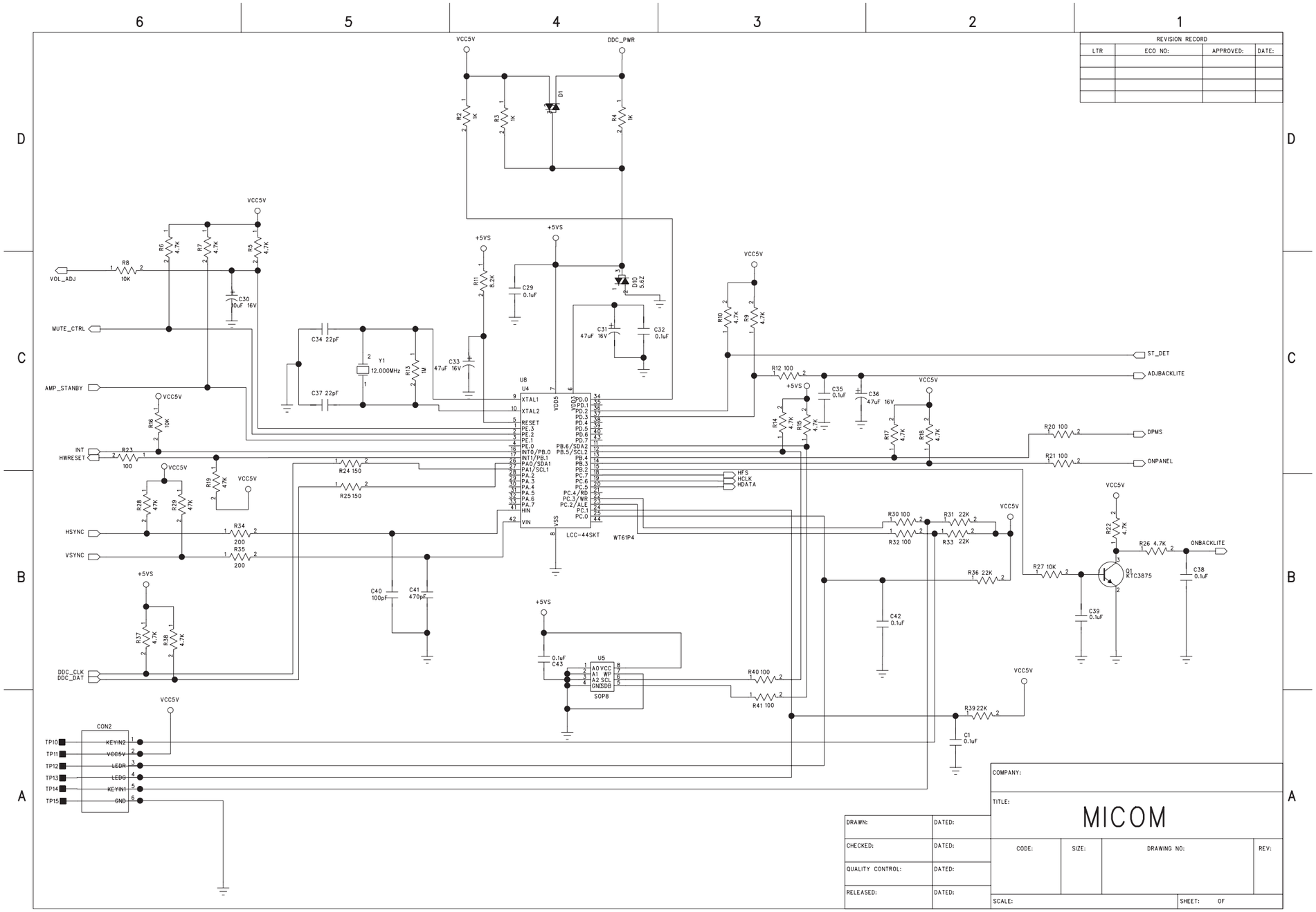
DRAWN:	DATED:
CHECKED:	DATED:
QUALITY CONTROL:	DATED:
RELEASED:	DATED:

COMPANY:

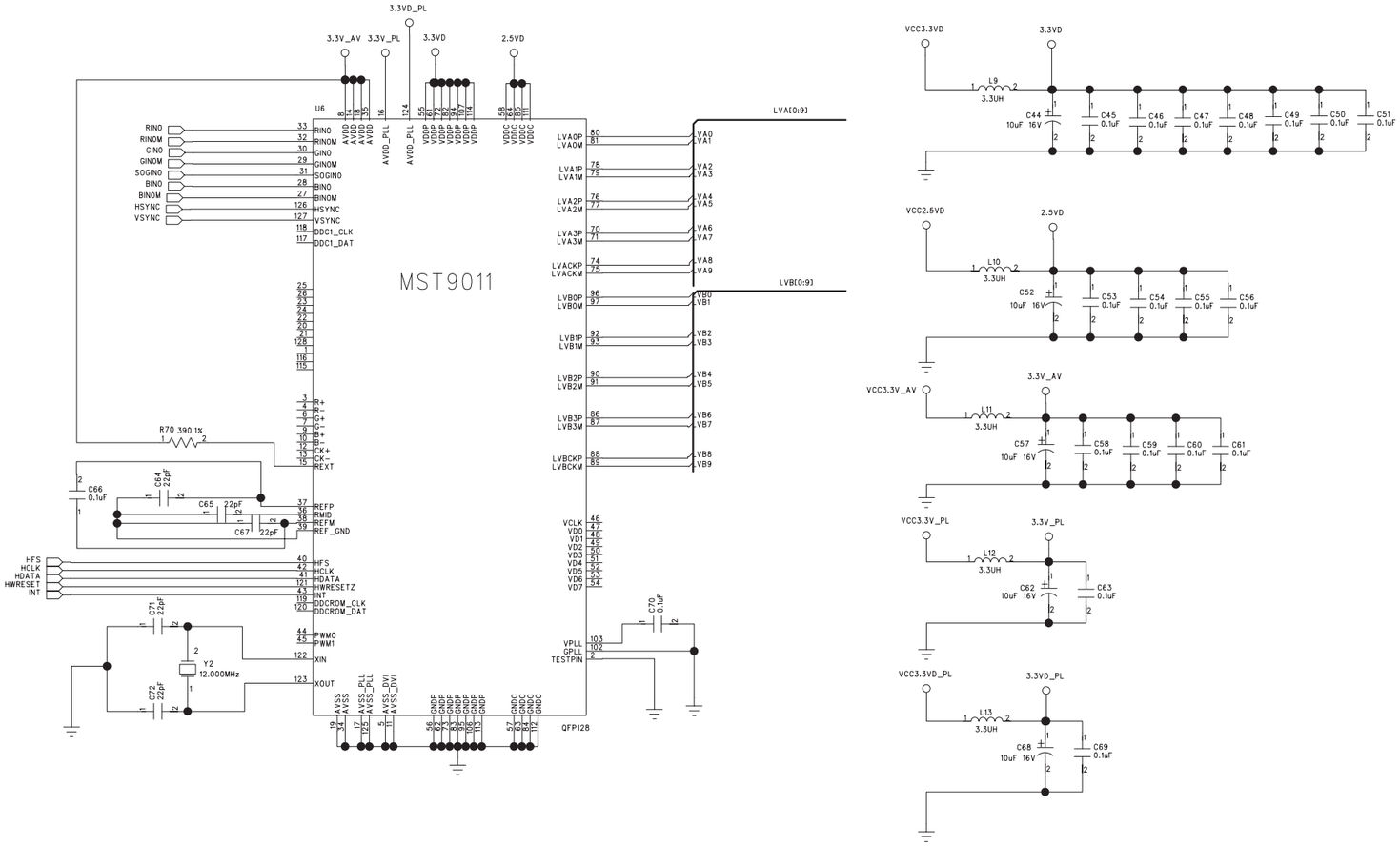
TITLE: VIDEO

CODE:	SIZE:	DRAWING NO:	REV:

SCALE: SHEET: OF


REVISION RECORD
LTR | ECO NO: | APPROVED: | DATE:
VCC5V
DDC_PWR
+5VS
VOL_ADJ
MUTE_CTRL
AMP_STANBY
INT
HWRESET
HSYNC
VSYNC
DDC_CLK
DDC_DAT
Y1 12.000MHz
U4
U8
U5
LCC-44SKT
WT61P4
SOP8
CON2
KEYIN2
LEDR
LEDG
KEYIN1
GND
HFS
HCLK
HDATA
ST_DET
ADJBACKLITE
DPMS
ONPANEL
ONBACKLITE
Q1 KTC3875
COMPANY:
TITLE:
MICOM
DRAWN:
CHECKED:
QUALITY CONTROL:
RELEASED:
DATED:
CODE:
SIZE:
DRAWING NO:
REV:
SCALE:
SHEET: OF

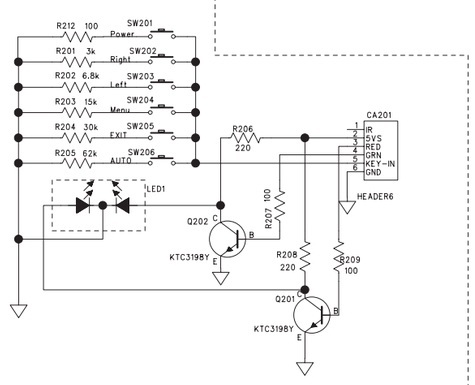
REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



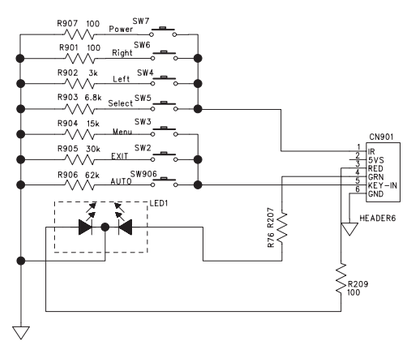
COMPANY:					
TITLE: LCD CONTROLLER					
DRAWN:	DATED:	CODE:	SIZE:	DRAWING NO:	REV:
CHECKED:	DATED:				
QUALITY CONTROL:	DATED:				
RELEASED:	DATED:	SCALE:		SHEET: OF	

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

15" CONTROL B'D

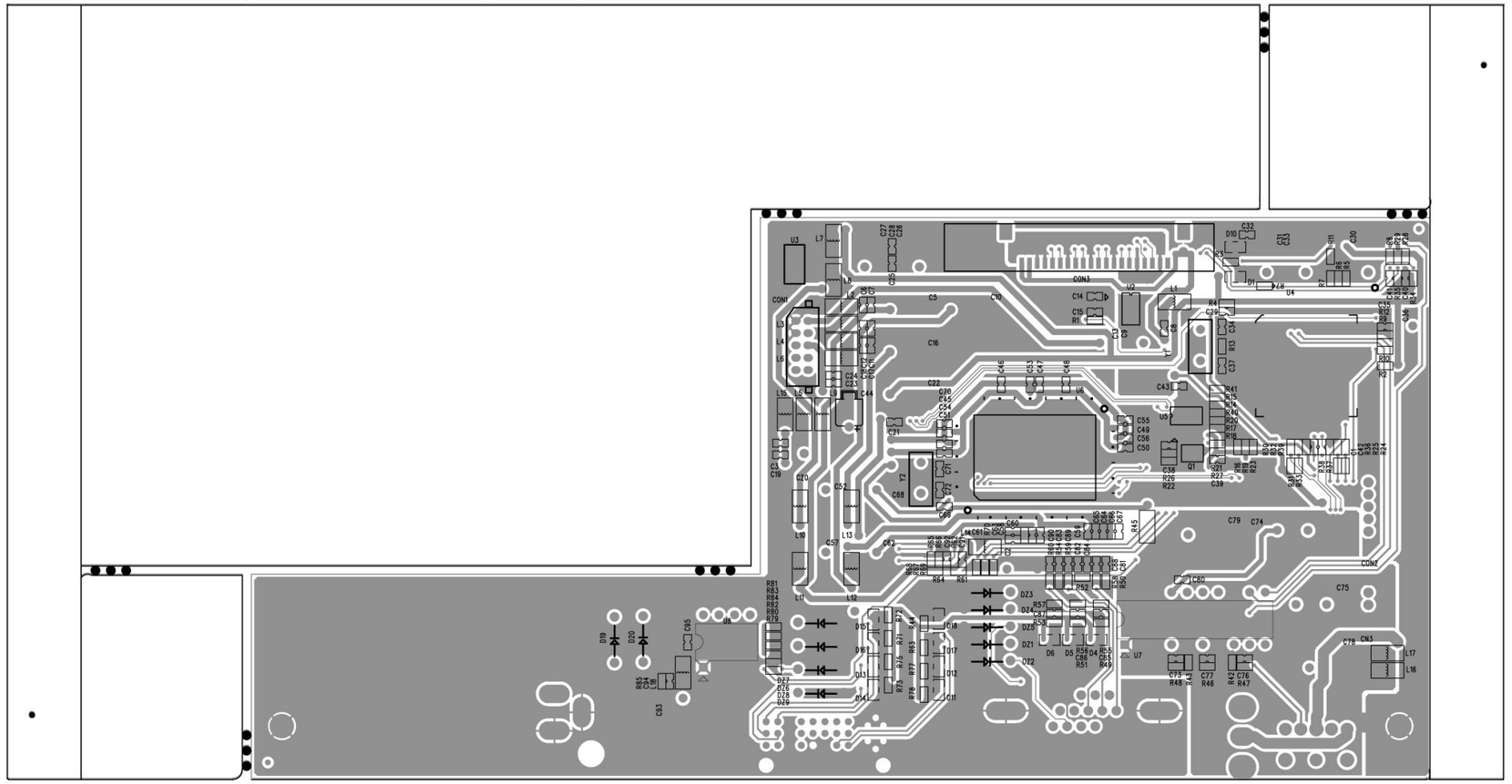


17" CONTROL B'D



DRAWN:	DATED:	COMPANY:			
		TITLE:			
CHECKED:	DATED:	CODE:	SIZE:	DRAWING NO:	REV:
QUALITY CONTROL:	DATED:				
RELEASED:	DATED:	SCALE:		SHEET: OF	

CAM350 V 5.0 : Wed Apr 21 15:30:33 2004 - (Untitled)



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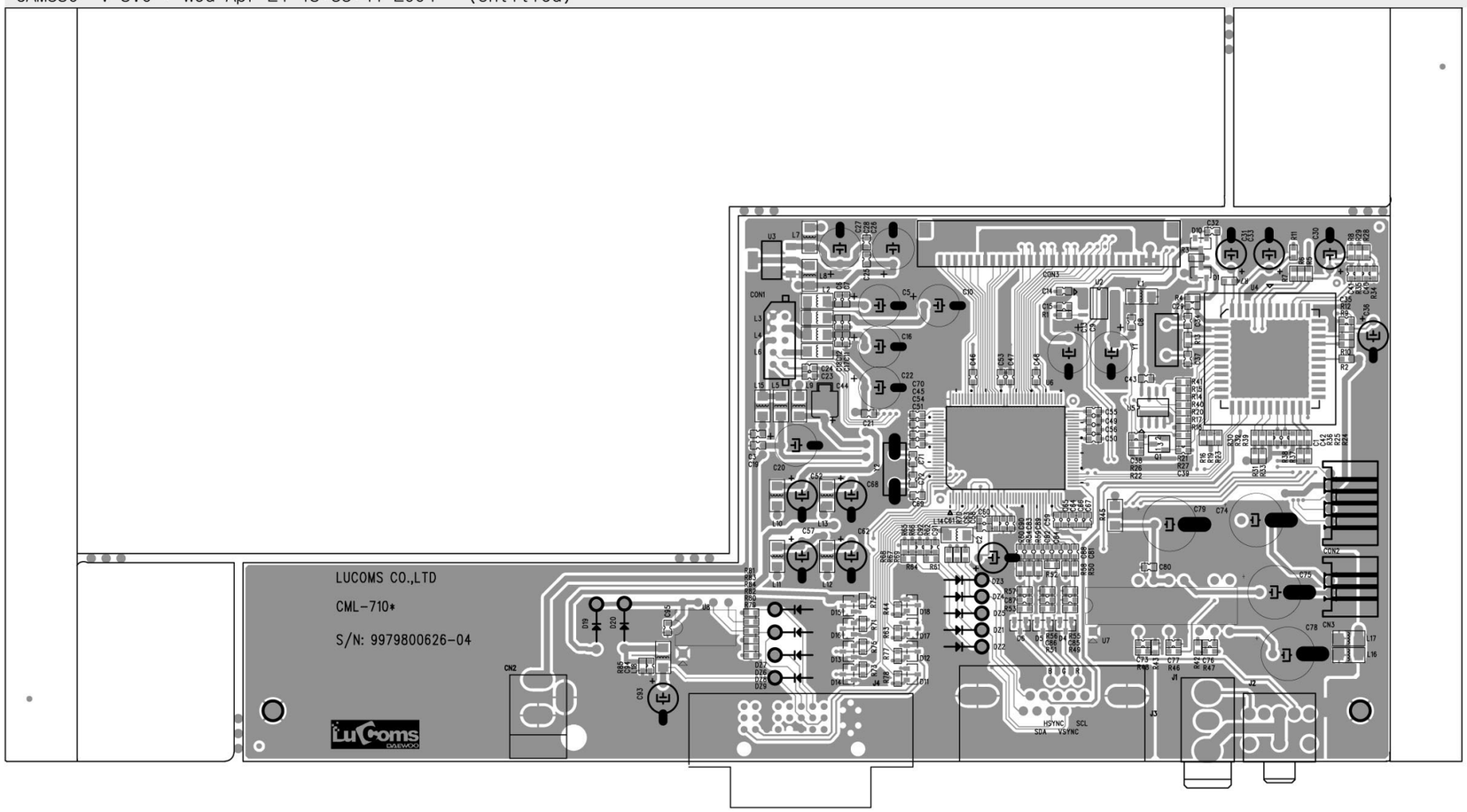
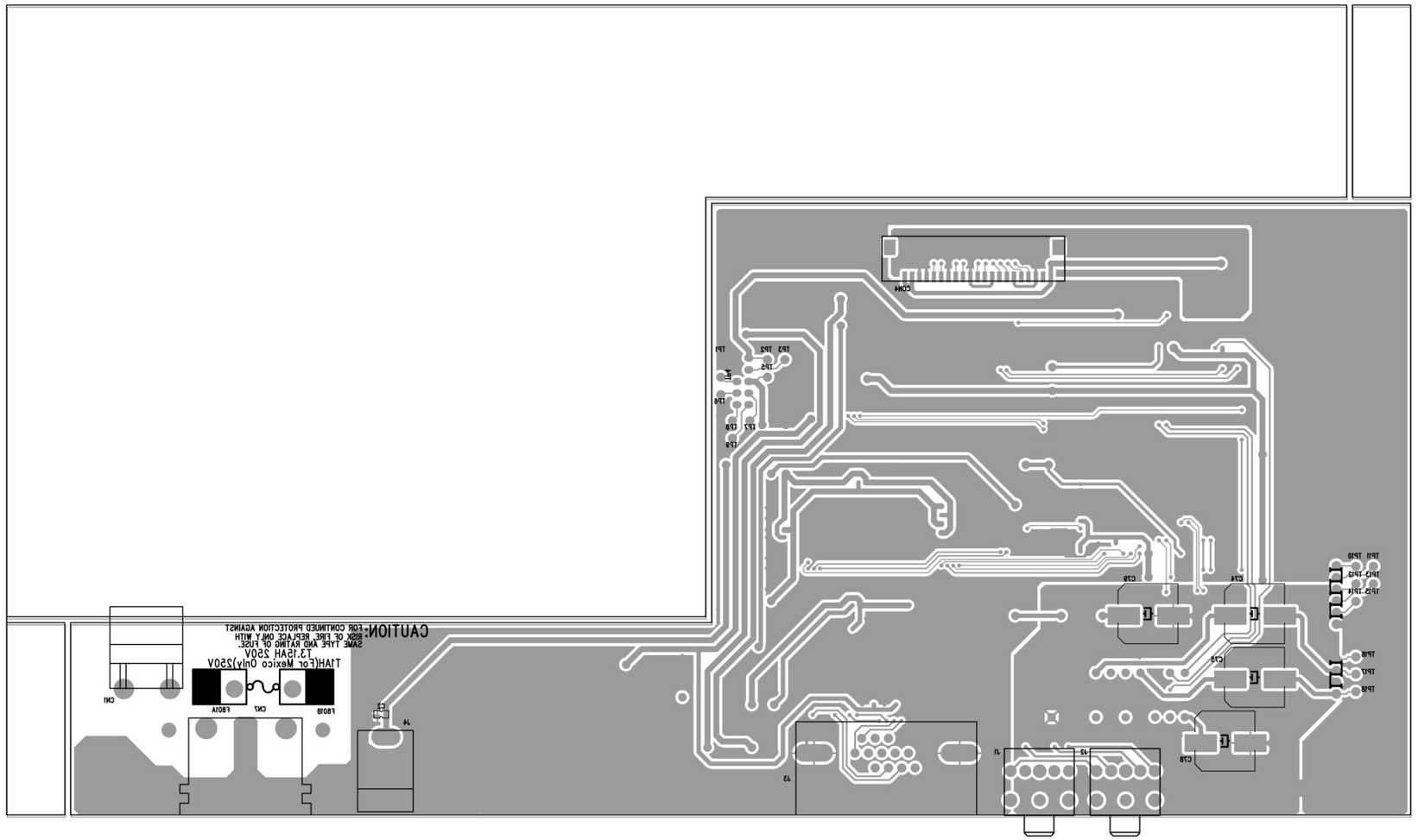
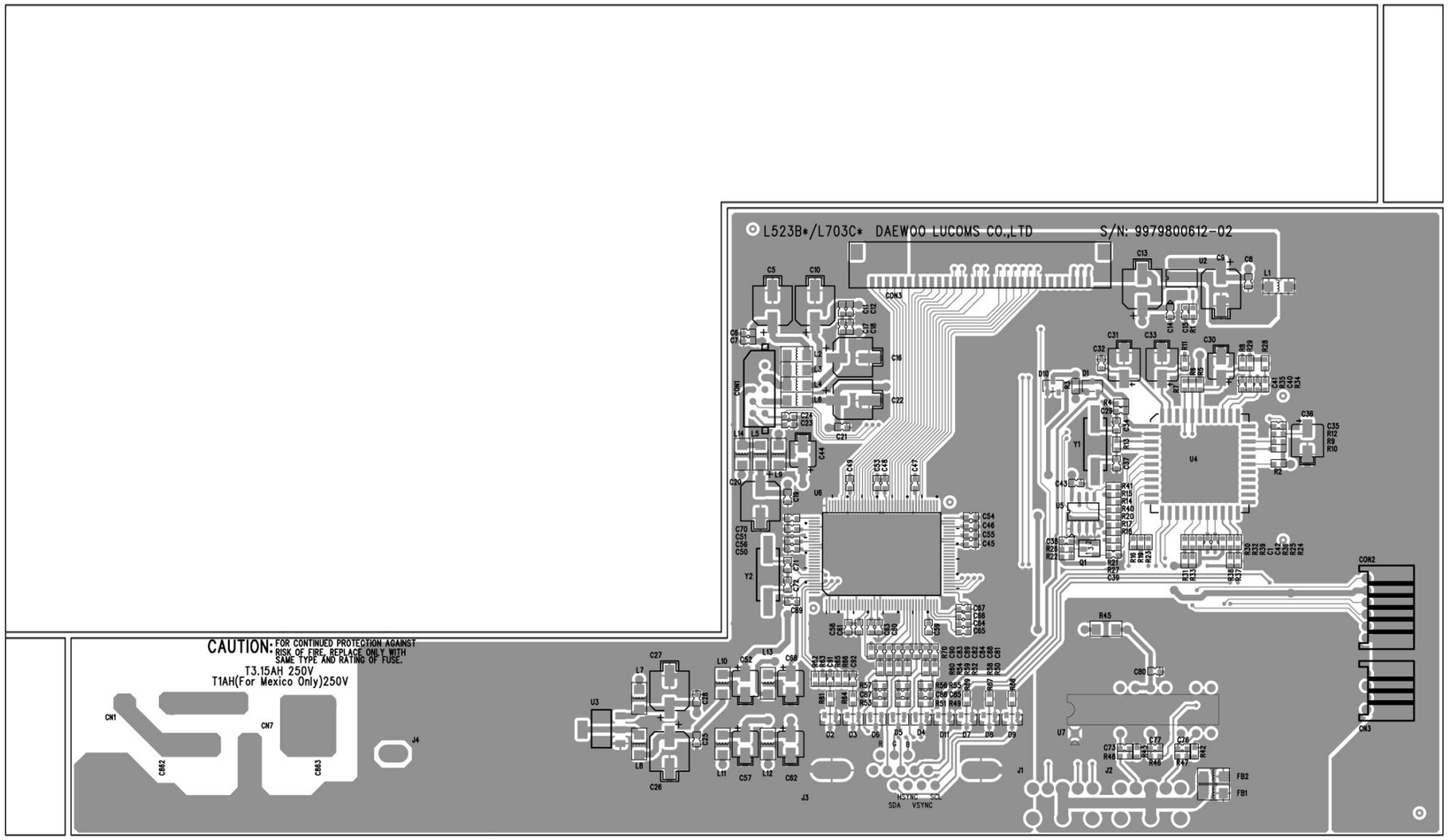



CAUTION:FOR CONTINUED PROTECTION AGAINST
RISK OF FIRE, REPLACE ONLY WITH
SAME TYPE AND RATING OF FUSE.
T3.15AH 250V
T1AH(For Mexico Only)250V

BOTTOM SIDE


L523B*/L703C* DAEWOO LUCOMS CO.,LTD S/N: 9979800612-02
CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE.
T3.15AH 250V
T1AH(For Mexico Only)250V

TOP SIDE

INFORMATION OF PART DESCRIPTION

Important Safety Notice

Components identified with the International Symbol have special characteristics important for safety.
When replacing any components, use only manufacturer's specified parts.

Abbreviation of Description

RESISTOR Description

Tolerance	
F	± 1%
J	± 5%
K	± 10%
M	± 20%
G	± 2%

Example:

Fig & Index	Part No	Description
R101	Resistors	
	RD-4Z820J	Carbon : 82J
R30	HRFS472JBA	Chip 4.7K OHM J

CAPACITOR Description

Tolerance	
C	± 0.25pF
D	± 0.5%
F	± 1pF
J	± 5%
K	± 10%
P	± 100% ~ 0%
Z	± 80% ~ –

Example:

Fig & Index	Part No	Description
	Capacitors	
C28	HCFK104ZBA	Chip Cera 50V Z
C63	HCBK393KBA	Chip Cera 50V K
C44	HCQK102JBA	Chip Cera 50V J

ELECTRICAL PARTS LIST

The components identified by mark ⚠ have special characteristics important for safety and x-ray radiation. These should be replaced only with the types specified in the parts list.

LOC	PART-CODE	PART-NAME	PART-DESC
Z1010	PCFMCAG204	COVER FRONT AS	CML-523BM-4L
CA001	99707K0002	CONN AS	12507HS-20+12507HS-20+1571#30=80
LCD	9979615051	LCD PANEL	LM150X06 LVDS
LIPS	DDML1501—	LCD INVERTER + POWER	DML-1501 (PEC)
YF001	9974116710	FRAME	E.G.I T=0.8 (LG-PHL TYPE)
YF010	99720221A9	COVER FRONT AS	L523BM C/FRONT AS
00010	9972022120	COVER FRONT	HIPS GRAY SPRAY
00010	22211102H4	RESIN HIPS	CH HR-1360 GY-340A G7851
00020	223126GY06	PAINT ACRYL	GY-5108BP
00030	2233020801	THINNER	AC THINNER
00020	9975112902	DECO FRONT	HIPS GRAY SPRAY
00010	22211102H4	RESIN HIPS	CH HR-1360 GY-340A G7851
00020	223126GY06	PAINT ACRYL	GY-5108BP
00030	2233020801	THINNER	AC THINNER
00030	9974828201	BUTTON TACT	HB-ABS SILVER SPRAY
00010	2221080788	RESIN ABS	HF-0680 G7642B(HB)
00020	223126GY03	PAINT ACRYL	SILVER SV3109BP
00030	2233020801	THINNER	AC THINNER
00040	9974826710	BUTTON POWER	HIPS DARK GRAY SPRAY
00050	9977921700	LENS LED	ACRYL (CLEAR)
00060	7173301011	SCREW TAPPTITE	TT2 BIN 3X10 MFZN
YF020	9977249200	SHIELD REAR	E.G.I T=0.8
YF030	7003250511	SCREW MACHINE	BIN 2.5X5 MFZN
YF031	7003250811	SCREW MACHINE	BIN 2.5X8 MFZN
YF040	7173301011	SCREW TAPPTITE	TT2 BIN 3X10 MFZN
YF041	7171301011	SCREW TAPTITE	TT2 PAN 3X10 MFZN
YF050	7173300611	SCREW TAPPTITE	TT2 BIN 3X6 MFZN
YF070	7173300611	SCREW TAPPTITE	TT2 BIN 3X6 MFZN
YF080	7173300611	SCREW TAPPTITE	TT2 BIN 3X6 MFZN
YF090	7S103B30B1	SCREW SPECIAL	M/C BIN 3*8 TW(B) MFZN
YF100	9978300038	SPEAKER ASSY	523BM R4020QC02
YF110	9977912902	TAPE ACETATE	ACETATE 0.27*30M
YF120	9976811600	WIRE SADDLE	NYLON 66 DAWS 2N
Z2010	PCMPM1G190	PCB MAIN MANUAL AS	CML-523BMW-L
C862	CH1FDF103M	C CERA AC	2.5KV 0.01MF M AC250V
C863	CH1FDF103M	C CERA AC	2.5KV 0.01MF M AC250V
CN1	9979220039	CONN WAFER	YAW396-03AV(ANGLE)
CN2	9979200317	SOCKET AC INLET	ST-03B-BP
CN3	9979220085	CONN WAFER	SMAW200-04/68163-0410
CON1	9979220118	CONN WAFER	YDW200-10
CON2	9979220087	CONN WAFER	SMAW200-06/68163-0610
F801	5F3CB3122L	FUSE CERA	SEMKO TL 3.15AH 250V MF51
F801A	9977410900	FUSE CLIP	BSP3-H T0.4 SN 5.2
F801B	9977410900	FUSE CLIP	BSP3-H T0.4 SN 5.2
J1	9979100014	JACK PHONE	“STEREO 3.5P, ST-029B-03BU”
J2	9979100022	STEREO PHONE JACK	ST-328NB-01
J3	9979200217	D-SUB 15P ANGLE	15P DDC BLUE W/OUT SCREW
U4	1WT61P4L44	IC MICOM	WT61P4-L44
U7	1TDA7496L-	IC AUDIO AMP	TDA7496L
YM010	9973924301	BKT I/O	E.G.I. T=1.0
YM020	9975211907	PLATE I/O	P.C T=0.5 (L523BMW)
YM030	7173300611	SCREW TAPPTITE	TT2 BIN 3X6 MFZN
Z3010	PCMPJ1G190	PCB MAIN SMD AS	CML-523BMW-L

ELECTRICAL PARTS LIST

LOC	PART-CODE	PART-NAME	PART-DESC
C1	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C10	HCEEF101MD	C CHIP ELECTRO	MV 16V 100MF M 6.3DX5.7H
C11	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C12	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
C13	HCEEF101MD	C CHIP ELECTRO	MV 16V 100MF M 6.3DX5.7H
C14	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C15	HCFD105ZBA	C CHIP CERA	Y5V 10V 1MF Z 1608
C16	HCEEF101MD	C CHIP ELECTRO	MV 16V 100MF M 6.3DX5.7H
C17	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C18	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
C19	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C20	HCEEF101MD	C CHIP ELECTRO	MV 16V 100MF M 6.3DX5.7H
C21	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C22	HCEEF101MD	C CHIP ELECTRO	MV 16V 100MF M 6.3DX5.7H
C23	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C24	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C25	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C26	HCEEF101MD	C CHIP ELECTRO	MV 16V 100MF M 6.3DX5.7H
C27	HCEEF101MD	C CHIP ELECTRO	MV 16V 100MF M 6.3DX5.7H
C28	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C29	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C30	HCEKF100MC	C CHIP ELECTRO	MV 16V 10MF D4.0XH5.2
C31	HCEDC470MC	C CHIP ELECTRO	MV 6.3V 47MF 5DX5.2H
C32	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C33	HCEDC470MC	C CHIP ELECTRO	MV 6.3V 47MF 5DX5.2H
C34	HCQK220JBA	C CHIP CERA	50V CH 22PF J 1608
C35	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C36	HCEDC470MC	C CHIP ELECTRO	MV 6.3V 47MF 5DX5.2H
C37	HCQK220JBA	C CHIP CERA	50V CH 22PF J 1608
C38	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C39	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C40	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608
C41	HCQK471JBA	C CHIP CERA	50V CH 470PF J 1608
C42	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C43	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C44	HCEKF100MC	C CHIP ELECTRO	MV 16V 10MF D4.0XH5.2
C45	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C46	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C47	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C48	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C49	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C5	HCEEF101MD	C CHIP ELECTRO	MV 16V 100MF M 6.3DX5.7H
C50	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C51	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C52	HCEKF100MC	C CHIP ELECTRO	MV 16V 10MF D4.0XH5.2
C53	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C54	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C55	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C56	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C57	HCEKF100MC	C CHIP ELECTRO	MV 16V 10MF D4.0XH5.2
C58	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C59	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C6	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C60	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C61	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608

LOC	PART-CODE	PART-NAME	PART-DESC
C62	HCEKF100MC	C CHIP ELECTRO	MV 16V 10MF D4.0XH5.2
C63	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C64	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C65	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C66	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C67	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C68	HCEKF100MC	C CHIP ELECTRO	MV 16V 10MF D4.0XH5.2
C69	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C7	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
C70	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C71	HCQK220JBA	C CHIP CERA	50V CH 22PF J 1608
C72	HCQK220JBA	C CHIP CERA	50V CH 22PF J 1608
C73	HCFD105ZBA	C CHIP CERA	Y5V 10V 1MF Z 1608
C74	HCEPF471ME	C CHIP ELECTRO	MV 16V 470MF M 8.0DX10H
C75	HCEPF471ME	C CHIP ELECTRO	MV 16V 470MF M 8.0DX10H
C76	HCFD105ZBA	C CHIP CERA	Y5V 10V 1MF Z 1608
C77	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C78	HCEPF471ME	C CHIP ELECTRO	MV 16V 470MF M 8.0DX10H
C79	HCEPF221ME	C CHIP ELECTRO	MV 16V 220MF D8.0XH1.0
C8	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C80	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
C81	HCFD105ZBA	C CHIP CERA	Y5V 10V 1MF Z 1608
C82	HCFD105ZBA	C CHIP CERA	Y5V 10V 1MF Z 1608
C83	HCFD105ZBA	C CHIP CERA	Y5V 10V 1MF Z 1608
C84	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608
C85	HCQK200JBA	C CHIP CERA	50V CH 20PF J 1608
C86	HCQK200JBA	C CHIP CERA	50V CH 20PF J 1608
C87	HCQK200JBA	C CHIP CERA	50V CH 20PF J 1608
C88	HCFD105ZBA	C CHIP CERA	Y5V 10V 1MF Z 1608
C89	HCFD105ZBA	C CHIP CERA	Y5V 10V 1MF Z 1608
C9	HCEEF101MD	C CHIP ELECTRO	MV 16V 100MF M 6.3DX5.7H
C90	HCFD105ZBA	C CHIP CERA	Y5V 10V 1MF Z 1608
C91	HCQK330JBA	C CHIP CERA	50V CH 33PF J 1608
C92	HCQK221JBA	C CHIP CERA	50V CH 220PF J 1608
CON3	9979220160	LVDS WAFER	12507WR-20
D1	DKDS193—-	DIODE	KDS193
D10	DZZ02W5R6V	DIODE ZENER	Z02W5.6V
D2	DZZ02W5R6V	DIODE ZENER	Z02W5.6V
D3	DZZ02W5R6V	DIODE ZENER	Z02W5.6V
D4	DBAV99——	DIODE CHIP	BAV99
D5	DBAV99——	DIODE CHIP	BAV99
D6	DBAV99——	DIODE CHIP	BAV99
D7	DZZ02W5R6V	DIODE ZENER	Z02W5.6V
D8	DZZ02W5R6V	DIODE ZENER	Z02W5.6V
D9	DZZ02W5R6V	DIODE ZENER	Z02W5.6V
FB1	HFFHH1M601	COIL CHIP BEAD	HH-1M3216-601JT
FB2	HFFHH1M601	COIL CHIP BEAD	HH-1M3216-601JT
L1	HFFHH1M601	COIL CHIP BEAD	HH-1M3216-601JT
L10	HFFHH1M601	COIL CHIP BEAD	HH-1M3216-601JT
L11	HFFHH1M601	COIL CHIP BEAD	HH-1M3216-601JT
L12	HFFHH1M601	COIL CHIP BEAD	HH-1M3216-601JT
L13	HFFHH1M601	COIL CHIP BEAD	HH-1M3216-601JT
L2	HFFHH1M601	COIL CHIP BEAD	HH-1M3216-601JT
L3	HFFHH1M601	COIL CHIP BEAD	HH-1M3216-601JT
L4	HFFHH1M601	COIL CHIP BEAD	HH-1M3216-601JT

ELECTRICAL PARTS LIST

LOC	PART-CODE	PART-NAME	PART-DESC
L5	HFFHH1M601	COIL CHIP BEAD	HH-1M3216-601JT
L6	HFFHH1M601	COIL CHIP BEAD	HH-1M3216-601JT
L7	HFFHH1M601	COIL CHIP BEAD	HH-1M3216-601JT
L8	HFFHH1M601	COIL CHIP BEAD	HH-1M3216-601JT
L9	HFFHH1M601	COIL CHIP BEAD	HH-1M3216-601JT
PCB	9979800612	PCB MAIN	CML-700C-3S T=1.6*225*110
Q1	TKTC3875SY	TR CHIP	KTC3875SY(RTK)
R1	HRFS102JBA	R CHIP	1/16 1K OHM J 1608
R10	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608
R11	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608
R12	HRFS101JBA	R CHIP	1/16 100 OHM J 1608
R13	HRFS105JBA	R CHIP	1/16 1M OHM J 1608
R14	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608
R15	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608
R16	HRFS103JBA	R CHIP	1/16 10K OHM J 1608
R17	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608
R18	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608
R19	HRFS473JBA	R CHIP	1/16 47K OHM J 1608
R2	HRFS102JBA	R CHIP	1/16 1K OHM J 1608
R20	HRFS101JBA	R CHIP	1/16 100 OHM J 1608
R21	HRFS101JBA	R CHIP	1/16 100 OHM J 1608
R22	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608
R23	HRFS101JBA	R CHIP	1/16 100 OHM J 1608
R24	HRFS151JBA	R CHIP	1/16 150 OHM J 1608
R25	HRFS151JBA	R CHIP	1/16 150 OHM J 1608
R26	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608
R27	HRFS103JBA	R CHIP	1/16 10K OHM J 1608
R28	HRFS473JBA	R CHIP	1/16 47K OHM J 1608
R29	HRFS473JBA	R CHIP	1/16 47K OHM J 1608
R3	HRFS102JBA	R CHIP	1/16 1K OHM J 1608
R30	HRFS101JBA	R CHIP	1/16 100 OHM J 1608
R31	HRFS223JBA	R CHIP	1/16 22K OHM J 1608
R32	HRFS101JBA	R CHIP	1/16 100 OHM J 1608
R33	HRFS223JBA	R CHIP	1/16 22K OHM J 1608
R34	HRFS151JBA	R CHIP	1/16 150 OHM J 1608
R35	HRFS151JBA	R CHIP	1/16 150 OHM J 1608
R36	HRFS223JBA	R CHIP	1/16 22K OHM J 1608
R37	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608
R38	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608
R39	HRFS223JBA	R CHIP	1/16 22K OHM J 1608
R40	HRFS101JBA	R CHIP	1/16 100 OHM J 1608
R41	HRFS101JBA	R CHIP	1/16 100 OHM J 1608
R42	HRFS102JBA	R CHIP	1/16 1K OHM J 1608
R43	HRFS102JBA	R CHIP	1/16 1K OHM J 1608
R45	HFFHH1M601	COIL CHIP BEAD	HH-1M3216-601JT
R46	HRFS334JBA	R CHIP	1/16 330K OHM J 1608
R47	HRFS102JBA	R CHIP	1/16 1K OHM J 1608
R48	HRFS102JBA	R CHIP	1/16 1K OHM J 1608
R49	HRFS000JBA	R CHIP	1/16 0 OHM J 1608
R5	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608
R50	HRFS101JBA	R CHIP	1/16 100 OHM J 1608
R51	HRFS000JBA	R CHIP	1/16 0 OHM J 1608
R52	HRFS101JBA	R CHIP	1/16 100 OHM J 1608
R53	HRFS000JBA	R CHIP	1/16 0 OHM J 1608
R54	HRFS101JBA	R CHIP	1/16 100 OHM J 1608

LOC	PART-CODE	PART-NAME	PART-DESC
R55	HRFS750JBA	R CHIP	1/16 75 OHM J 1608
R56	HRFS750JBA	R CHIP	1/16 75 OHM J 1608
R57	HRFS750JBA	R CHIP	1/16 75 OHM J 1608
R58	HRFS101JBA	R CHIP	1/16 100 OHM J 1608
R59	HRFS101JBA	R CHIP	1/16 100 OHM J 1608
R6	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608
R60	HRFS101JBA	R CHIP	1/16 100 OHM J 1608
R61	HRFS000JBA	R CHIP	1/16 0 OHM J 1608
R62	HRFS000JBA	R CHIP	1/16 0 OHM J 1608
R64	HRFS000JBA	R CHIP	1/16 0 OHM J 1608
R65	HRFS101JBA	R CHIP	1/16 100 OHM J 1608
R66	HRFS103JBA	R CHIP	1/16 10K OHM J 1608
R67	HRFS101JBA	R CHIP	1/16 100 OHM J 1608
R68	HRFS101JBA	R CHIP	1/16 100 OHM J 1608
R69	HRFS101JBA	R CHIP	1/16 100 OHM J 1608
R7	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608
R70	HRFS391JBA	R CHIP	1/16 390 OHM J 1608
R8	HRFS103JBA	R CHIP	1/16 10K OHM J 1608
R9	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608
U2	TAPM4835KC	FET	APM4835KC-TR
U3	1APL111725	IC REGULATOR	APL1117-25VC-TR
U4S	9979300504	SOCKET IC	PLCC 1.27PT 44PIN(22*22)
U5	1CAT24WC08	IC EEPROM	CAT24WC08 J
U6	1MST9011—	IC LCD CONTROLLER	MST9011
Y1	5XS12R000E	CRYSTAL QUARTZ	HC-49/SM5H 12MHZ 11PF
Y2	5XS14R318F	CRYSTAL QUARTZ	HC-49/SM5H 14.318MHZ 18PF
Z2030	PCPLSWG190	PCB CONTROL AS	CML-523BMW-L
CA201	9970790113	CONN AS	SMH200+YBNH200+1007#26/1354#28=350
LED1	DSD50GYW—	LED	SD50GYW(GREEN/AMBER)
W5	9979220084	CONN WAFER	SMAW200-03/68163-0310
W6	9979220084	CONN WAFER	SMAW200-03/68163-0310
Z3030	PCPLJRG172	PCB CONTROL RAD.AS	CML-523BW-L
Q201	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)
Q202	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)
SW201	5S50101Z10	SW TACT	KPT-1115AM
SW202	5S50101Z10	SW TACT	KPT-1115AM
SW203	5S50101Z10	SW TACT	KPT-1115AM
SW204	5S50101Z10	SW TACT	KPT-1115AM
SW205	5S50101Z10	SW TACT	KPT-1115AM
SW206	5S50101Z10	SW TACT	KPT-1115AM
Z4030	PCPLJAG172	PCB CONTROL AXIAL AS	CML-523BW-L
PCB	9979800614	PCB CONTROL	CML-523B T=1.6*202*28
R201	RD-AZ302J-	R CARBON FILM	1/6 3K OHM J
R202	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J
R203	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J
R204	RD-AZ303J-	R CARBON FILM	1/6 30K OHM J
R205	RD-AZ623J-	R CARBON FILM	1/6 62K OHM J
R206	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J
R207	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R208	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J
R209	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R212	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
Z1020	PCBCCPG207	COVER REAR AS	CML-523BM-4L
YR010	99721173A1	COVER REAR AS	CML-520B C/REAR AS
YR040	7173301212	SCREW TAPPTITE	TT2 BIN 3X12 MFZN BK

ELECTRICAL PARTS LIST

LOC	PART-CODE	PART-NAME	PART-DESC
YR070	99729250A1	STAND AS	CML-520B STAND AS
YR080	7173301012	SCREW TAPTITE	TT2 BIN 3X10 MFZN BK
YR090	7S103B4081	SCREW SPECIAL	M/C BIN 4*8 MFZN
Z1030	PCPKCPG205	PACKING AS	CML-523BM-4L
YP010	9978051702	BOX CARTON	523BM-L DTE FRANCE
YP020	9978136300	CUSHION	E.P.S
YP030	9978215300	BAG POLY	PEHD T=0.5*550*700
YP040	2TP00075CL	TAPE OPP	50X75 CLEAR
YP050	9975841000	LABEL BARCODE	ART PAPER 71*36
YP051	9919310000	LABEL BARCODE E	ART PAPER COM IMPRINTABLE
YP060	9978634606	MANUAL INSTRUCTION	CML-523BM-L (DTE FRANCE EN/FR)
YP061	W3415M731-	CORD POWER	C5 H03VV-F 3X0.75 1.8M BK
YP063	9970800072	CABLE SIGNAL AS	15P+2C/DDC+GY-641A+OD5.5=1.5M
YP064	9978212900	BAG POLY	PE FILM T0.05*250*350
YP065	99708A0019	STEREO CABLE W/FERRITE CORE	3.5ST/M-FRT+3.5ST/M
YP100	9975842900	STICKER CLEAR	CLEAR 20 T0.1MM PET REMOVAL
YP110	9972610300	HANDLE	66 SHEET
YP120	9975432903	LABEL RATING	L523BM-4L (DTE FRANCE)
YP130	9975841607	LABEL I/O	P.E T=0.1*191*7 (L523BM)

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